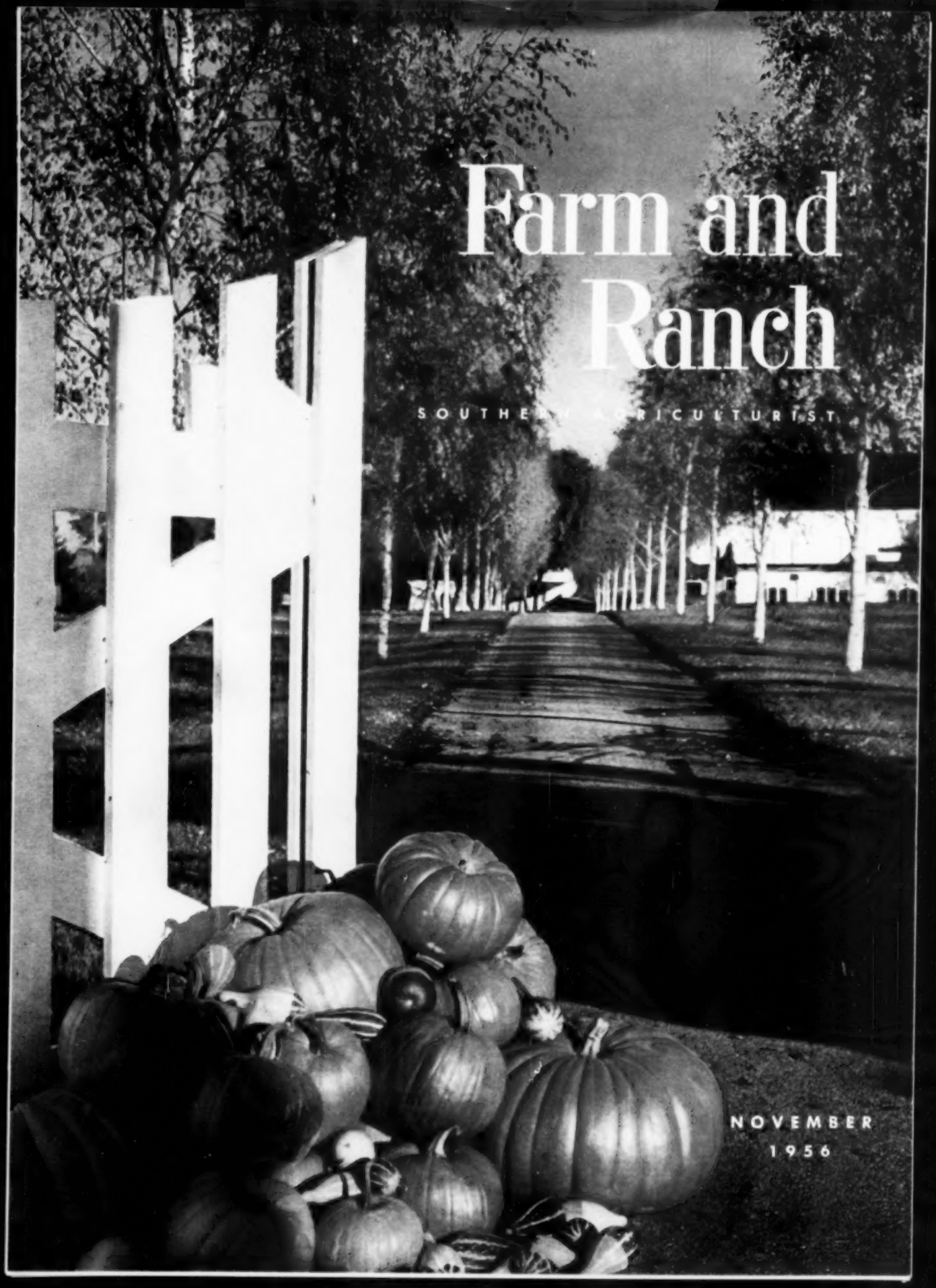

Farm and Ranch

SOUTHERN AGRICULTURIST

NOVEMBER
1956

Miracle designed to ease your working days

fabulous MH50 with hydramic power

See it... Start it... drive into a new tractor age!

FIVE FABULOUS MINUTES at the wheel and you know the magic of Hydramic Power . . . the complete coordination of power development, transfer and application . . . the one system that puts power where it is needed — to push, pull, lift, lower, adjust, operate. In a word . . . Miracle-Design.

It's a new world of tractor performance that starts with the staying ability of new TorqueMaster 4 Engines, the greater selectivity of 6 forward speeds, the instant control of Duo-Range clutching.

It continues with the matchless power application of 2 PTO drives . . . the superlative performance of traction on demand built into the Draft Monitor 3-point hitch. And over it all — the fingertip accuracy of Hydramic Master Control.

Ask for a Demonstration . . . See your Massey-Harris dealer today. Test drive the fabulous MH50 and get full information on the Massey-Harris Time Payment Plan with its unique insurance feature to protect you against losses of many kinds. For folder, write: Massey-Harris, Dept. **L-55,** Racine, Wis.

Always keep your eye on **Massey-Harris**

For better farming join your soil conservation district

Bob Unser sets new record in 1956 Pikes Peak race, in Jaguar-powered racer with Champion Spark Plugs. Champions give him more power in his family car, too.

New Champion spark plugs can increase road horsepower by 24%

...and they can increase the power of your farm engines, too!

Champion Spark Plugs are the favorite of the vast majority of the nation's race drivers—for dependable, full-firing power and action.

And in cars tested by independent engineers—when new Champions replaced plugs that had gone 10,000 miles or so, there was an immediate increase in road horsepower, the real power actually delivered at the rear wheels. *The average gain for all cars tested was an amazing 24%!*

What new Champions can do for race cars and test cars, they'll do for your car—and for your trucks, tractors and other farm equipment. Get new Champions and get new power and performance for *all* your farm engines!

5-RIB

CHAMPION

SPARK PLUGS

ORDINARY ELECTRODE POWERFIRE ELECTRODE

New Powerfire electrode stands up better in today's engines. Photo shows how ordinary electrode *(left)* burns away. Champion's Powerfire electrode *(right)*, after identical use, is still good for more miles of powerful performance.

CHAMPION SPARK PLUG COMPANY • TOLEDO 1, OHIO

FREE VITAMINS

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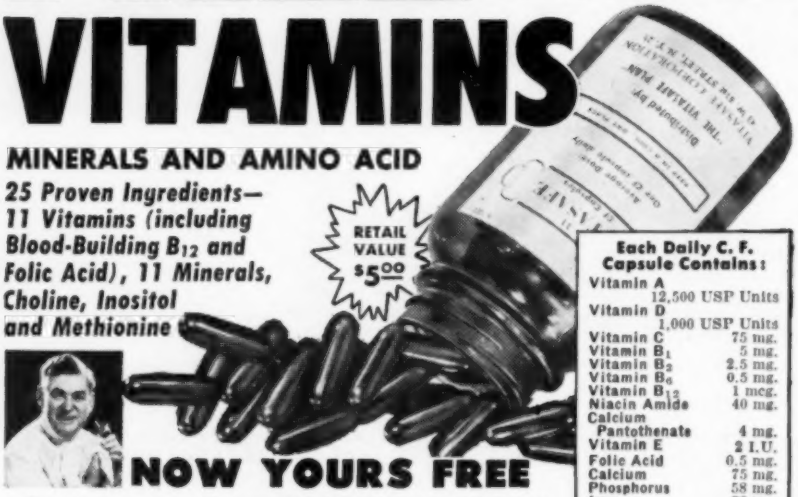
Safe High Potency Nutritional Formula

MINERALS AND AMINO ACID

25 Proven Ingredients— 11 Vitamins (including Blood-Building B_{12} and Folic Acid), 11 Minerals, Choline, Inositol and Methionine



Each Daily C. F. Capsule Contains:

Vitamin A	12,500 USP Units
Vitamin D	1,000 USP Units
Vitamin C	75 mg.
Vitamin B_1	5 mg.
Vitamin B_2	2.5 mg.
Vitamin B_6	0.5 mg.
Vitamin B_{12}	1 mcg.
Niacin Amide	40 mg.
Calcium Pantothenate	4 mg.
Vitamin E	2 I.U.
Folic Acid	0.5 mg.
Calcium	75 mg.
Phosphorus	58 mg.
Iron	30 mg.
Cobalt	0.04 mg.
Copper	0.45 mg.
Manganese	0.5 mg.
Molybdenum	0.1 mg.
Iodine	0.075 mg.
Potassium	2 mg.
Zinc	0.5 mg.
Magnesium	3 mg.
Choline Bitartrate	31.4 mg.
Inositol	15 mg.
dl-Methionine	10 mg.

Compare this formula with any other!

NOW YOURS FREE

To prove to you the remarkable advantages of the Vitasafe Plan . . . we will send you, without charge, a 30-day free supply of high-potency VITASAFE C. F. CAPSULES so you can discover for yourself how much healthier, happier and peppier you may feel after a few days' trial! Just one of these capsules each day supplies your body with over *twice* the minimum adult daily requirement of Vitamin B_1 and the *full* concentration recommended by the National Research Council for the other four important vitamins! Each capsule contains the amazing Vitamin B_{12}—one of the most remarkably potent nutrients science has yet discovered—a vitamin that actually helps strengthen your blood and nourish your body organs.

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There is no mystery to vitamin potency. As you probably know, the U.S. Government strictly controls each vitamin manufacturer and requires the exact quantity of each vitamin and mineral to be clearly stated on the label. This means that the purity of each ingredient, and the sanitary conditions of manufacture are carefully controlled for your protection! And it means that when you use VITASAFE C. F. CAPSULES you can be *sure* you're getting exactly what the label states . . . and that you're getting *pure* ingredients whose beneficial effects have been proven time and time again!

WHY WE WANT YOU TO TRY A 30-DAY SUPPLY — FREE!

We offer you this 30-day free trial of valuable VITASAFE C.F. CAPSULES for just one reason. So many persons have already tried them with such astounding results . . . so many people have written in telling us how much better they felt after only a short trial . . . that we are absolutely convinced that you, too, may experience the same feeling of health and well-being after a similar trial. In fact, we're so convinced that we're willing to back up our convictions with our own money. *You* don't spend a penny for the vitamins! All the cost and all the risk are *ours*. A month's supply of similar vitamin capsules would ordinarily cost $5.00 retail.

AMAZING NEW PLAN SLASHES VITAMIN PRICES IN HALF!

With your free vitamins you will also receive complete details of an amazing new plan that provides you regularly with all the Vitamins and minerals you will need. This Plan actually enables you to receive a 30-day supply of vitamins every month, regularly, safely and factory fresh for exactly $2.00—or 60% lower than the usual retail price. BUT YOU DO NOT HAVE TO DECIDE NOW—you are under no obligation to buy anything from us whatsoever. To get your free 30-day supply and learn all about this amazing new Plan, be sure to send us the coupon today—the supply is limited.

VITASAFE CORP., Dept. 156
43 West 61st Street, New York 23, N. Y.

Please send me free a 30-day supply of the proven VITASAFE CF (Comprehensive Formula) Capsules, and full information about the VITASAFE plan. I am not under any obligation to buy any additional vitamins, and after trying my free sample supply, I will accept or reject the benefits and substantial savings offered by the VITASAFE Plan. In any case, the trial month's supply of 30 VITASAFE Capsules is mine to use free.

I ENCLOSE 25¢ (coins or stamps) to help pay for packing and postage.

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Address.....

City..... Zone..... State.....

This offer is limited to those who have never before taken advantage of this generous trial. Only one trial supply per family.

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43 West 61st Street, New York 23, N. Y.

THE DIXIE EDITION

Covering the South East of the Mississippi

Nashville, Tennessee and Atlanta, Georgia

2 Southern Editions

ESTABLISHED 1869

1956 November

Vol. 86—No. 11

1,303,000 subscribers—more circulation in the 15 Southern States than any other farm magazine.

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Light up a Lucky

it's light-up time!

WHAT'S THE SCORE? This is for sure: you never had it so good! When it comes to taste, you just can't beat a Lucky. It's made of fine tobacco—light, mild, naturally good-tasting tobacco that's TOASTED to taste even better . . . cleaner, fresher, smoother. You'll score it this way: Luckies are the best-tasting cigarette you ever smoked!

©A T Co. PRODUCT OF *The American Tobacco Company* AMERICA'S LEADING MANUFACTURER OF CIGARETTES

Another reason why
we're doubling the supply
of electric power

A. B. Salmela, livestock specialist at the University of Minnesota's Grand Rapids Experiment Station, states that the use of electric heat lamps for brooders at the Station has practically eliminated deaths caused by chilling.

Electricity can save pigs—boost profits

Hundreds of livestock farmers have found that they can save an average of three pigs in every two litters when they use infra-red electric heat lamps for brooding. These pigs would normally be lost through chilling and smothering.

Pig brooding is only one of more than 300 ways that plentiful electricity can be used profitably on the farm. And farm uses for electricity are growing all the time. Within about six years, American farmers will need twice as much electricity as they are using now. That's because electricity saves time and work—because it adds so much in profits, convenience and pleasure.

This additional power that farmers will need is being planned and built right now by America's more than 400 independent electric light and power companies. These companies—which are already working side by side with local farm electric groups to bring electricity to 96% of America's farmers—are planning and building ahead so there will be plenty of electricity *always.*

America's Electric Light and Power Companies*

**Names on request from this magazine*

LETTERS

• • • I wish it were possible for you to be living in a past age more suited to your intellectual development. If you were living in the 1770's perhaps you could button-hole the Founding Fathers and talk them out of their absurd notion to form a Federal bureaucracy. But oh my, here you are in 1956. . . . And so Straight Talk Tom Anderson must make a gallant uphill (and of course impossible) fight to undo this gigantic and accumulative mistake.

I think we can all agree that if there were no money for the government, there would be no government. Presto, there we'd be just where you want us.

It was really stimulating to feel your righteous joy in describing "the greatest Washington exodus of government chauffeurs, secretaries, clerks, bureaucrats and flunkies since the flight of the children of Israel." Then when this exodus had run its course and the state governments held the purse strings, I wonder what advice you would give to the Army, Navy or Air Force when they are "forced to work all 48 states" for money. But of course, to be consistent you would suggest that each state provide for its defense, or else that bad old federal government would have power again.

Fred T. Rogers *Henderson, Tex.*

• • • Thanks so much for printing the truth about our income tax. Every newspaper and every magazine should print the truth about the income tax and then maybe the people would know who to vote for for president in November.

It is like you said in your editorial. The big are becoming bigger and the little are becoming weaker. They are sending our tax money overseas to the Communists.

Thanks again for being brave and printing the truth. I wish we had a president with the knowledge and brains and courage that you have got. We need one that is not afraid to tell the truth because he is afraid of losing a vote. . . .

Mrs. Veda P. Christian
Cottondale, Ala.

• • • Since my first issue of FARM AND RANCH magazine, I have enjoyed every copy, and have wondered why so many others don't take the advantage of this wonderful book.

Lester H. Rogers *Vale, N. C.*

(Continued on page 8)

Germ-killing furazolidone in

New disease-fighting booster feeds

kills off germs while it strengthens your birds

New, lifesaving furazolidone in high-level or booster feeds protects all types of poultry in a new, more effective way. It upsets disease germs' nutritional balance — throws the germs off feed until they starve to death. No resistant strains emerge to fight back. And the same low medication levels continue to prevent disease losses, year after year.

Boosts feed efficiency

This new, man-made germ killer frees your birds from the energy-robbing chore of fighting disease. It aids health and high production . . . helps birds get more from what they eat. As a result — you head off many laying slumps to keep production at a peak.

Safe for all poultry

There's never a trace of irritation . . . no unwanted "side effects" to slow down production . . . no harm to egg quality or hatchability. Furazolidone is completely safe for all poultry, livestock and pets. No danger even if accidently overfed at twice the treatment level.

Feeds away flock troubles

Poultry experts say there are 30 or more *stress conditions* that give birds a bad time . . . and open the door to many secondary and non-specific infections. Here's where furazolidone really pays off with its germ-killing power.

Ever see a germ off feed?

Normal germs . . . get sick . . . and die.

Normal bacteria, when unhampered by drugs, grow in an orderly pattern. They thrive and multiply such as these common disease-causing organisms above.

When treated with the nitrofurans, germs get sick, go "off feed." Some die immediately. Others may become distorted, swell up and start to die.

But it's a losing battle, the end of the road for profit-robbing disease organisms. Unable to feed or multiply, germs starve to death and disintegrate.

Actual microscopic photographs before and after treatment with nitrofurans.

Look for lifesaving furazolidone on the tag

Furazolidone is effective in preventing and treating typhoid, paratyphoid, pullorum and synovitis. It also prevents most occurrences of CRD (air sac), blue comb (non-specific enteritis) and quail disease (ulcerative enteritis) in chickens. Furazolidone's disease-fighting power has been proved by years of university and Hess & Clark research . . . and by feeding to millions of birds.

one of those lifesaving

nitrofurans

germ-killers that last, from . . .

HESS & CLARK, Inc.

Ashland, Ohio

Enjoy snug, warm comfort *Automatically* all winter long!

Clean, healthful home heating with WARRENGAS

COSTS ONLY PENNIES A DAY!

MODERN! *Clean heat for healthful living.* It's *true!* You can have America's cleanest, fastest-warming, most dependable heat all winter long when you use WARRENGAS—and for *only pennies a day!* Now, enjoy healthful comfort, freedom from furnace-tending! All at surprisingly low cost, for homes large and small.

SAFE! *Automatic controls for your protection.* Modern furnaces and space heaters are equipped with instant-acting safety controls that shut off gas automatically if there isn't a flame.

Compare WARRENGAS with any other home heating fuel!

WARRENGAS—	↓	OIL	COAL	WOOD
Low fuel cost, low installation cost	YES	Yes	Yes	Yes
Fully automatic operation	YES	Yes	No	No
Healthful, even temperature control	YES	Yes	No	No
Burns clean—unpleasant fumes eliminated	YES	No	No	No
Dependable safety controls	YES	Yes	No	No
Free from ashes, oily film and soot	YES	No	No	No

Economical! **Low fuel costs save you money.** *Almost anywhere you live, when you heat with WARRENGAS, you enjoy lower bulk prices. Costs are amazingly low—only pennies a day! Ask your distributor for full information.*

WARRENGAS heats homes . . . heats water . . . cooks . . . powers tractors . . . heats brooder houses . . . *automatically—dependably!*

WARRENGAS *the Concentrated fuel*

WARREN PETROLEUM CORPORATION
TULSA, OKLAHOMA

• • • I want to thank FARM AND RANCH and Thomas J. Anderson for their wonderful magazine. It is the only farm paper that believes in the free enterprise system of America. The only thing that made us strong and a great nation.

The voices of Tom Anderson, Dean Manion and T. Coleman Andrews must never be silenced or we will be doomed for slavery.

If it is possible I want you to send me a few copies of the advertisements by Justin Potter to send to my senators and congressmen. It may not be too late to stem the tide of Socialism but we do not have much time left.

The "Straight Talk" by Tom Anderson is worth many times the small amount we pay for the magazine. . . .

Henry Adrian *Alton, Mo.*

• • • May I say I disagree with your "Straight Talk" for October in the matter of leaving the plight of the common people entirely in the hands of the states. The federal government can contribute to and coerce the states into assisting the common people to attain nearly equal common advantages in all states than if this is left entirely to the states.

Backward states with high percentages of illiteracy and underprivileged citizens will find them voting heavily against "Spending their money," as you put it, for high schools, fine roads and most other common advantages not regularly used by them. They think of and vote for their own selfish desires.

They think the federal government should supply those things and to a degree I agree with them. I know the government must tax to do this. Maybe some of them do not. Most of them pay very little direct federal tax anyhow. This may incline your readers to say they don't deserve advantages they don't pay for.

Elmer C. Graves
Kingston Springs, Tenn.

• • • Farm magazines are a great force in American agriculture. You have definitely substantiated the fact that you are interested in the welfare of the American farmer and taken very definite positions regarding the place of government working with farmers which I consider one of the most dangerous trends we are facing today . . . real danger to American agriculture and the American farmer has a leading influence for preserving our way of life.

Tom J. Hitch
Tennessee Farm Bureau Federation
Columbia, Tenn.

• • • I have been a reader of the FARM AND RANCH for several years. I enjoy it very much. My father-in-law, A. J. McNeil, has been a subscriber to the magazine for years and years, and says it is the best magazine that money can buy.

Tom Anderson's column "Straight Talk" is one of my favorite columns in the magazine. In my opinion Tom Anderson is a straight and sound thinking man. In the September and October issues of FARM AND RANCH he had some items in "Straight Talk" that every person, farmer or whatnot, should have in mind since this is another election year.

I wonder if I might have your permission to have "Straight Talk" or a portion of it from the September and October issues reprinted in our county newspaper. I would, also, like to know if I could pick at random any "Straight Talk" column or items in "Straight Talk" and have it reprinted, or should I get permission for each one I want reprinted first?

Max Bauguss *Purlear, N. C.*

Reprint permission gladly given when credit given and copy of reprint sent to FARM AND RANCH.

A handsome 28-page booklet containing 11 of the most popular "Straight Talks" is just off the press. Opposite each editorial is a page or two of the best letters, pro and con. The "Straight Talk" booklet is available for 25 cents a copy.

• • • I have read the editorial page of your magazine ever since I discovered it. . . .

This last editorial (October) is one to top them all. This has been discussed in little circles everywhere, but you have been the first to bring it out for everybody to see. I firmly agree on your views of this problem. I have talked to several of the people of this area before your editorial came out, and they had the same view of the issue.

There will be some "revenoors" who will be opposed to your views of the issue but there are always a few who oppose something, good or bad, whether they help the little man or not, just so they stuff their pocketbooks with it.

Keep on writing, and more power to you, just remember when you are reading some old grouch's letter that you have a few who are always behind you as long as you are sticking up for what is right.

To those few who try to cut out your column let us review Voltaire who said, "I do not agree with a word you say, but I will defend to the death your right to say it."

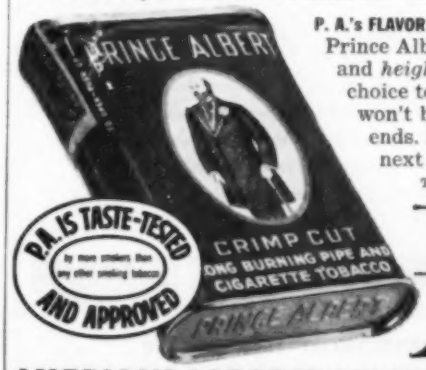
D. Ballard *Hammond, La.*

(Continued on page 10)

R. J. Reynolds Tobacco Co., Winston-Salem, N. C.

"Natural tobacco taste in every makin's cigarette!"

says Clarence C. Jennings, chief painter. "I've been rolling up makin's cigarettes with Prince Albert for 25 years. No other smoking tobacco rolls as easy or smokes as mild and tasty."

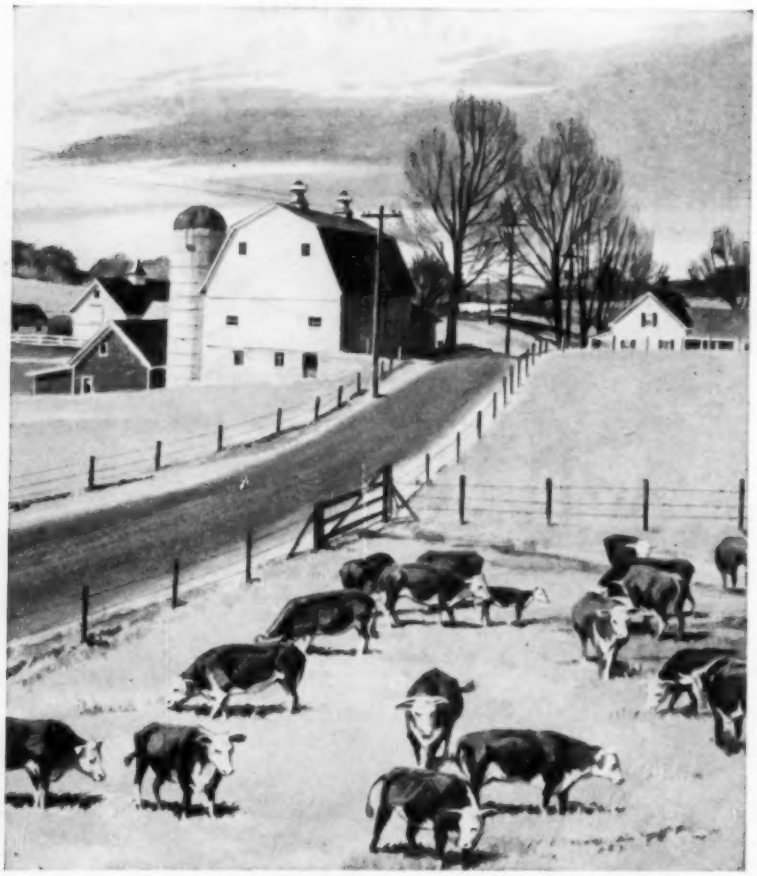


P. A.'s FLAVOR COMES FROM NATURE, HERSELF! And Prince Albert's own special process *holds* and *heightens* the rich, natural flavor of choice tobacco. Being crimp cut, P. A. won't blow around or dribble out the ends. Enjoy Prince Albert in your next makin's cigarette!

Tune in "Grand Ole Opry" Saturday Nights on NBC

Prince Albert

AMERICA'S LARGEST-SELLING SMOKING TOBACCO!



MODERN RAILROADS HELP MAKE MODERN FARMS

Agriculture as it is known in America, with its specialized production of high-quality crops and its highly organized system of marketing, dates from the time when railroads made it possible to reach the nationwide markets upon which that kind of agriculture depends.

And today, modern railroads are *basic* in modern agriculture — basic in the gigantic job of moving your crops to market — basic in bringing you the variety and abundance of supplies and equipment which enable you to produce more and live better.

That's why it is important to you — and to all America — that our public policies should give equal treatment and opportunity to all forms of transportation. Then each form can do for you the things which it can do best, and your modern railroads will be able to serve you even better and more economically!

Association of American Railroads
Transportation Building, Washington 6, D. C.

• • • As a subscriber to FARM AND RANCH may I state that your hard-hitting common sense editorials are a source of satisfaction to me. There is little in common there with the radical Socialistic New Dealers.

However, I would appreciate it if you will investigate the falseness of an article covering "Cancer Treatment" per clipping enclosed from the September issue. I have personally interviewed Mr. and Mrs. Powell whose son was restored to normal life after a few months treatment by the Hoxsey Clinic at a cost of $400. They had spent approximately $8,000 with various Atlanta doctors who gave the boy up for any hope whatsoever —he was skin and bone, weighing about 90 pounds and suffering terribly when he went to Dr. Hoxsey.

The statement in FARM AND RANCH attributed to The Food and Drug Administration cannot be substantiated by facts. I feel your "Country Doctor" should investigate and retract in the interest of FARM AND RANCH readers.

J. Vernon Yost *Atlanta, Ga.*

We sincerely hope the Hoxsey Clinic really has found a helpful treatment for cancer.

Dr. Metcalfe's opinions do not necessarily represent the official views of FARM AND RANCH. As laymen, however, the editors cannot judge the merits of the controversy between the Hoxsey Clinic and the general medical profession. In the absence of a definite decision on the controversy, we accept these explanations by Dr. Metcalfe:

"1. The Food and Drug Administration in Washington, in our opinion, is not working against the people of America but has done an effective job in protecting them against fraud throughout the half century that it has existed.

"2. There is no conspiracy among medical professions to prevent any medically competent person from treating cancer.

"3. We admit, along with all intelligent people, that there are great gaps in our knowledge of cancer. Yet millions of dollars have been and are being invested in careful, honest research in cancer and we do know that there is no evidence that the ingredients of the Hoxsey medication (red clover blossoms, buckthorn, cascara, prickley ash bark, licorice and potassium iodide) are of any value in the treatment of cancer of any type.

"4. The solution of the cancer problem will come not from emotional arguments for or against any treatment, but by scientists, amply supported by the public, probing into the secrets of this dread disease."

• • • I have been reading the FARM AND RANCH for over 30 years and I think you are the only editor who has the guts to print the facts, whether they are big or little business data. Rich or poor folks—Democrat or Republican. You are the first man I have yet to hear who has the nerve to stand up and deny the charges the Republicans have thrown at the Democrats.

Marcellus Bates *Claude, Tex.*

• • • I have more respect for Jesse James way of robbing. At least he faced his victims and did not hide behind a pencil lead. (Sept. issue.)

And we can't even have a decent road to travel on in our community even after sapping our pocketbooks. They can't afford that. Please keep up the fine work you are doing. I'll always be a cheerleader for you and your magazine.

M. C. Lovelace *Henry, Va.*

Thanks, Mr. Hobgood • • • We ordered your House Plan No. 31 about three years ago and finished our new house in January, 1956. I want you to know it's wonderful. We built it in four months for below what we thought it would cost to build. I can surely recommend FARM AND RANCH house plans to anyone for convenience, beauty and adaptability to any location. We are very proud of our lovely house, thanks to Mr. Hobgood, for his skill in architecture.

Mrs. L. D. Reuels *Mayo, Fla.*

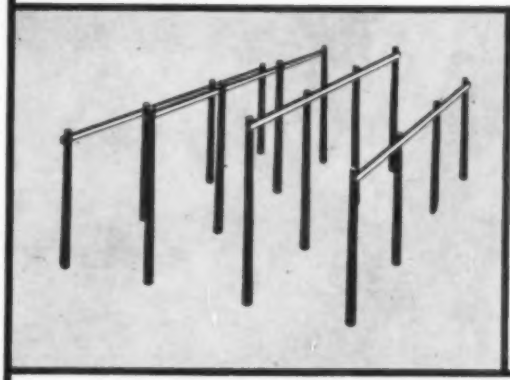
Iris Davenport Chosen by National Home Economics Fraternity

At the recent conclave of Phi Upsilon Omicron our Woman's editor, Iris Davenport, was voted president-elect of the fraternity. As president-elect she will serve as national chairman of the Professional Work Committee. Phi U is the national honorary home economics fraternity established in 1909 at the University of Minnesota.

The fraternity has chapters in 42 universities and colleges where home economics has very high rating. There are over 12,000 active and alumnae members. Membership is by selection based on scholarship, leadership, high ideals and character.

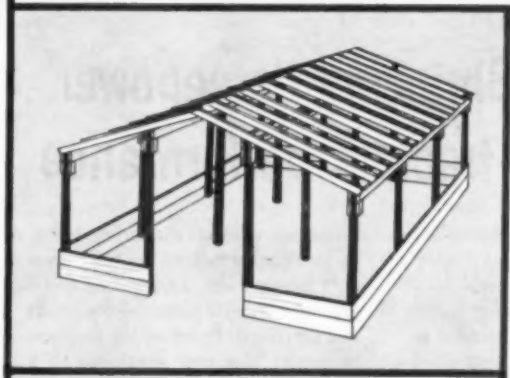
FIRST CHOICE FOR

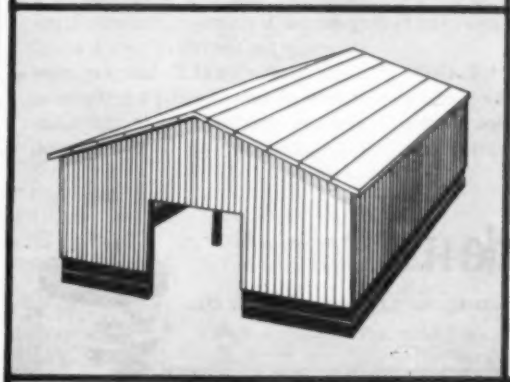
POLE-FRAME BUILDINGS



Southern Pine, with its superior strength, is the most ideal building material to take advantage of all that pole-frame construction can offer. Ease and economy of construction can pay long-term dividends only when the right lumber is used.

GRADE-MARKED SOUTHERN PINE





Southern Pine is the strongest of the structural woods . . . has greater nail holding power . . . takes preservative treatment much more effectively—all adding up to sturdier, longer-lasting farm buildings.

Ask your dealer for Southern Pine with the S P I B Grade Mark. It certifies the lumber has been adequately seasoned, uniformly manufactured and accurately graded to meet definite strength requirements.

Remember—for greater strength, more nail holding power and better insulation, always demand *dry* lumber.

Southern Pine Association
P.O. Box 1170, New Orleans, La.

Please send me my Free copy of Southern Pine's new building manual "How to Build Pole Type Frame Buildings."

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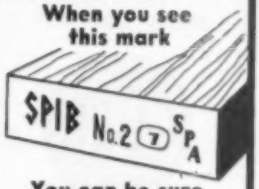
When you see this mark



You can be sure it's dry

Don't let "Shrinking Horsepower" slice your tractor's performance

The picture above gives you an idea of what happens when your tractor's horsepower begins to shrink.

The cause of "shrinking horsepower" is a build-up of harmful deposits inside the combustion chambers. They gradually steal away your engine's horsepower.

That's why you need New Gulfpride H.D. Select. It's the world's only motor oil super-refined by the exclusive Alchlor Process to help prevent these deposits.

It not only controls the carbon build-up that causes "shrinking horsepower," pre-ignition, knock and overheating—but also guards against acids and corrosion. Provides the toughest protective film ever developed in a motor oil. It assures minimum oil consumption for the life of your tractor.

Get Gulfpride H.D. Select in reusable 5-gal. cans. Available in the exact grade recommended by the manufacturer of your tractor for every season of the year.

Gulfpride H.D. Select

THE WORLD'S FINEST MOTOR OIL

Best for all your lubrication needs

GULF

Gulf All-Purpose Farm Grease—one grease takes the place of several, saves time, money and bother.

Gulf Multi-Purpose Gear Lubricant—perfect for all conventional transmissions and differentials.

Thrifty Farmers Go Gulf

LAW ON THE FARM

Liability

OATS on an Oklahoma farm had been cut and raked into windrows, to be custom harvested on a per-acre basis by the combine owner. However, his regular helper failed to appear. So the farmer told him that Charlie, an 18-year-old farm hand who had worked with farm machinery but never with combines, would help him out.

After Charlie had run the harvester for a time the owner went away, leaving him in charge of the machine. The wet grain clogged in the auger. Charlie had not been told what to do under such circumstances. Without cutting off the power he reached under a safety guard to jerk the chain driving the auger. It caught his hand between a belt and a pulley.

A lawsuit was brought later on the boy's behalf against the owner of the farm for the injuries he received. It was claimed that the boy's employer had failed to furnish the boy with a safe place in which to work and with safe machinery, and had failed to give him proper directions on how to run the machine.

The Oklahoma Supreme Court refused to allow the boy any damage, saying that the boy knew it was dangerous to put his hand beneath the safety guard in trying to start the auger. He could plainly see the danger and for that reason neither the farmer nor the owner of the machine was obligated to warn the boy against doing what he did. The farmer, as the boy's employer, would only be liable for damages for injuries of this kind if he knew or ought to have known that such a warning was necessary.

"An employer," said the court, "is not bound to warn an employee against dangers which are obvious or patent or of which the employee has knowledge."—*A. W. Gray.*

McMillian v. Bollenback, 294 Pac. 2d 541, Oklahoma, March 6, 1956.

The Farm and Ranch booklet, "Modern Irrigation" will help you plan and operate your irrigation system more efficiently. Order your copy by sending 10 cents to Reader Service Bureau, Farm and Ranch, Nashville, Tenn.

Livestock Letter .....the Latest First

Low Level Feeding of Phenothiazine to cattle by the experiment station at Wooster, Ohio, reduced by 88 percent the number of parasite eggs per gram of manure -- but had no noticeable effect on the number of grubs in the backs of animals. The researchers say this is probably because feeding of the drug was not started early enough. Larva had already migrated to the back region. The small amount of the drug used (2 grs. per day in feed) was apparently safe.

Hog Disease Expensive. USDA studies on the effects of the hog disease atrophic rhinitis show that it has no measurable effect on a sow's productivity but it stunts the growth rate of their pigs. The disease is becoming a major problem in swine. Cause is not known. It's not a killer but pneumonia is sometime secondary. Diseased animals often show no outward ill effects.

Plum Island Lab Is Ready. The new $10 million research building for work with foreign livestock diseases has been completed at Plum Island, New York -- and dedicated. The island, separated by a mile and a half of water from the mainland, is considered a safe location for experimentation with diseases like foot and mouth and others that are potential threats to the U. S. livestock industry.

Milk Prices Up 13 Cents. For the first 8 months this year, whole milk averaged selling for $4 per 100 pounds -- 13 cents higher than for same period last year. But with feed and other livestock items up, the dairy product-feed price ratio is less favorable this fall. Forecast: prices will continue seasonal rise and stay ahead of last year through Dec.

Number of Dairy Cows has decreased by at least one percent this year -- but production per cow average increase will push total production 3½ billion pounds ahead of last year.

Milk Stimulation through use of thyroactive materials has been proved to be limited in its practical value in Federal-state experiments. Available to dairymen in commercial feeds for years, and known to increase milk production as much as 20% in some cows for short periods, the materials now seem to affect production very little when checked throughout a lactation.

Reducing Feed Allowances for steers on fattening rations will decrease water consumption and may help stockmen through a short-time water shortage. However, if feed allowances are cut sharply, considerable time may be required to get animals back on full feed when water shortage is relieved. This practice should never be used with lactating cows because it will decrease milk production.

A New 2-Way Calf Scour Tab is on the market to help farmers control calf scours. The combination of Streptomycin and Sulfathiazole to fight bacteria in intestines and blood stream and Kaolin to protect injured intestinal lining proved effective. Tabs given at first sign of scouring require two to three days to halt the trouble.

A New Anti-Parasite Formula, containing phenothiazine, mixes easily with any ground feed and blends to the same consistency as the feed so that stock cannot separate it from the feed. A companion formula is designed for use with hay, silage or other roughages. Either type is claimed to be palatable and simple to mix without settling.

Fed Cattle Prices are likely to stay above last year, predicts USDA. Feeder cattle prices expected to gradually close the gap with last year after seasonal declines. Slaughter of cattle likely to be up but total pounds of beef about the same because of lighter weights. Average profits from feeding appear brighter than a year ago.

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FARMING AHEAD

THE LATEST FIRST—FOR THE SOUTHEAST

Amount for Which Farmers may sign up for 1957 wheat Acreage Reserve program is same as for 1956 -- except that under certain conditions entire wheat allotments may be included. Rate of payment will be much higher next year -- $1.20 a bushel times normal yield. To qualify for 1957 Acreage Reserve, land must have been planted in wheat sometime during period 1952 through 1956.

Ten Million More Turkeys will be marketed this year than in 1955 -- mostly heavy breeds. A lower cold storage holding will influence price, and higher pork and beef prices could possibly enable the market to move this year's crop at, or slightly below, 1955 price levels.

The Large Number of Broilers now growing, plus the number of eggs set in incubators, indicate that supplies of broilers for the remainder of the year will continue about 20% larger than in the same months of 1955. Prices unlikely to climb high soon.

USDA 1957 Winter Vegetable guide recommends acreage increases for snap beans, broccoli, sweet corn, cucumbers, eggplant and tomatoes. Acreage cuts suggested for beets, cabbage, carrots, cauliflower, escarole, lettuce and shallots. Acreages equal to those in 1956 are recommended for lima beans, kale, green peppers and spinach.

Thanks to the Soil Bank, net income of farmers will be slightly larger in 1956 than last year. The first year-to-year increase since 1951. The $300 million paid by the Soil Bank will do it.

The Number of Layers on farms in Sept. was larger than a year ago -- up 3%. Means egg prices will decline this fall.

Soybean Production Is Up one-fourth from last year. Cotton production is down 1.6 million bales. Deciduous fruit output is 2% down. Tree nuts, up 6%. Spring wheat, 3% up. Tobacco production down from last year, but with carryovers larger.

Cross-Seeding Wheat and Ryegrass on the same area is better than either alone, according to recent winter grazing crop tests in Mississippi.

Lamar Ratliff, Mississippi's record-breaking corn producer (304 bu. from a measured acre last year), had hard luck this year. Cold, unfavorable spring weather delayed start, dry weather hit in summer and made irrigation necessary. But he still made over 275 bu. from that acre. Top that, Corn Belt producers! One difference this year: Young Lamar used chemical weed control.

Tobacco Plant Beds can be treated for weed control next year with two new materials, says Dr. W. E. Chappell, plant physiologist at VPI. The materials are allyl alcohol, sold under the tradenames "Bed Drench" and "Shell Weedkiller A" and dithiocarbamate, sold as "Vapam." They can be applied directly to the bed as a drench, either with a sprinkling can or tractor mounted gear pump. They do not require bed covers or working into the soil.

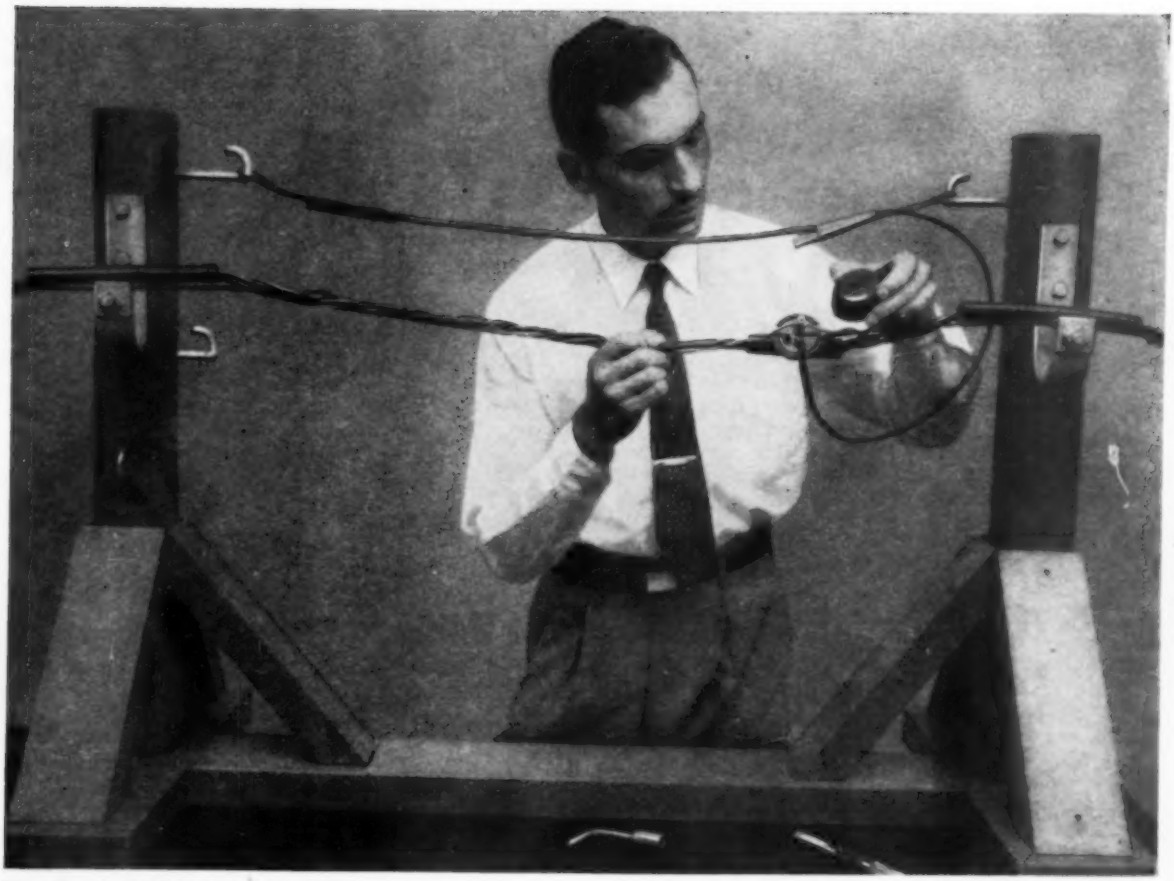
Corn Resistant to Ear Worm. Beltsville breeders in cooperation with state experiment stations, have shown that several corn varieties are at least 50% resistant to corn ear worm. In 50-bushel-per-acre southern corn, 3.2 bushels were lost with Station Mosby variety -- 1.9 bushels were lost with Dixie 17 -- while only .2 bushels were lost with very resistant La. 1030.

TEST TUBE

New developments from experiment stations and commercial labs. Not all proved but ready to try.

A New Systemic Insecticide, called Phosdrin, has been given USDA experimental label acceptance for use on certain fruit and vegetable crops. It will kill insects on contact, as well as those that suck the plant sap. It's chief advantage is that it dissipates rapidly and farmers can use it up to one to three days before harvest. It is available in limited quantities.

Treating Soil With Trace Minerals molybdenum, copper and zinc stimulated growth of legumes in 2-yr. test in South Texas, announces S. W. Foundation, San Antonio. More information must be obtained to determine what form and quantities of trace minerals are best for application.



Hans Pawel of Bell Telephone Laboratories demonstrates the ease of installing the new Watch Case Terminal. Notice the new type of telephone wire with which it is used and the new kind of brackets which hold the wire on the poles.

A Watch Case for Rural Telephone Lines

Recently, at Bell Telephone Laboratories, Hans Pawel helped develop another improvement for rural telephone lines. It's a terminal—that's where the line from your telephone connects to the wires that run along the road. We call it the Watch Case Terminal.

It gets this name from its size and shape. Because it is so small and simple, the terminal can be installed by one man in five minutes. And since it is so little, it can be hung on the telephone wire.

This terminal is just one of many new things for rural telephones. For example, it is used with a new type of multiple wire which can be strung quickly because of a new type of bracket. Together these developments permit us to put up as much as 40% more rural telephone lines for the same amount of money and time.

Telephone people—in laboratories, in the telephone office in your town, on the line in front of your home—work together continually to improve and extend service in Bell System rural areas.

BELL TELEPHONE SYSTEM

By Lee DeYoung

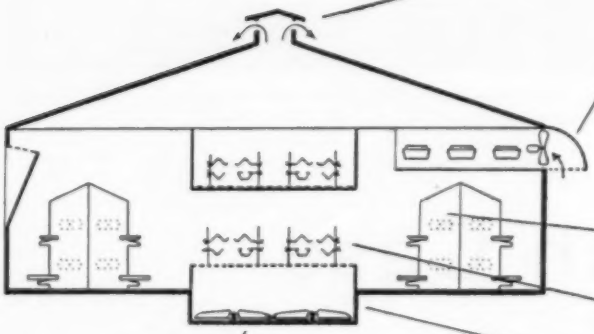
Now a modern "EGG PLANT"

MECHANIZATION has really arrived in the hen house when one man can do all the chores necessary to take care of over 1,800 layers in less than one hour a day—and most of that time is spent in just gathering eggs from multiple nest-collecting trays.

Tom Cornwell, Jr., of Clinton, North Carolina, has such a laying house. And, even though the house has only 3,000 square feet of floor space (30 x 100 feet), Cornwell plans to increase the laying flock to 2,500. That's only a little more than one square foot of floor space per bird, as compared with the three to four feet per bird commonly recommended and used!

Plenty of automatic fan-forced ventilation is the big secret behind Cornwell being able to crowd his layers into this small space. This crowding, in turn, makes the use *(Continued on next page)*

Powerful fans provide forced ventilation. Fresh air is drawn in by the fans, circulated through the house, and warm, humid air is forced out ridge ventilators.



The fans are automatically controlled by the time switch and thermostat shown at top. Eggs roll out of individual nests into a handy collecting tray.

A pit cleaner similar to the one in Cornwell's house. By simply throwing a switch, the cleaner will pull the droppings out of the pit and drop them on an outside conveyor which elevates them to a convenient height for self-loading in spreader or truck.

These "bat wing" cleaner paddles fold back on the reverse stroke to by-pass the litter they will pick up on the forward stroke as they fold out and move the litter ahead of them.

The automatic feeders and waterers are over the dropping pit. To increase capacity, feeders and waterers can also be placed on the overhead roosts if desired.

of the rest of the automatic equipment much more practical and economical. For example, smaller sizes of such labor saving equipment as the dropping pit cleaner can be used to take care of a much larger number of birds.

The ventilation system is known as the pressurized inlet type. Fans in the outside walls pull fresh air into ducts which extend into the house. The air is forced out of the ducts through diffusing baffles which circulate it throughout the house. The warm, moisture-laden air is forced up and out ridge ventilators.

The house has four 19-inch fans, each of which can move 177,000 cubic feet of air per hour. They are automatically controlled by a thermostat and time switch. The thermostat turns the fans on any time the temperature reaches a pre-set degree and turns them off again once the temperature drops below this degree. In addition, the time switch can be set to operate the fans a desired number of minutes out of every 10 minutes, regardless of the temperature. This assures adequate ventilation at all times.

The automatic feeders and waterers in Cornwell's house are located above a dropping pit, and a second level roosting area is above them. Cornwell plans to also install feeders and waterers on this second level when he increases the flock to 2,400.

A very large percentage of the droppings fall directly into the pit. The combination of automatic ventilation and a dropping pit to catch most of the droppings results in very clean and dry litter.

An automatic pit cleaner cleans out the dropping pit and dumps the droppings on an outside conveyor which elevates them to convenient height for self-loading in spread or truck. The pit is cleaned about once a week, and it takes about 10 minutes operation to remove the 3,000 pounds of droppings.

Egg production and feed consumption for the first five months of operation has been equal to or slightly better than what might be expected in a conventional house.

Cornwell figures the house and equipment cost him about $8,000. He plans to build another automatic house to be 36 x 150 feet and figures that it will cost him only $1.52 per bird for house and equipment, as compared to the $3 to $6 per bird costs of conventional housing. That's real economy, and even more economy in the long run because the equipment saves so much time and labor.

Numerous types of automatic equipment are sold by various manufacturers. It might pay you to investigate this new type of housing the next time you plan to build or enlarge a poultry house.

Irrigate?

It's a matter of dollars and cents. Maybe you can't afford not to.

Your nearby Fairbanks-Morse or F-M Pomona pump dealer is an irrigation expert. He has the answer to your question: "Will the greater yield pay for the water and leave more cash profit in my pocket?"

Chances are, the extra profit will be plenty.

And when you irrigate, your best buy is the *best* pump. Fairbanks-Morse pumps and motors are exactly right for all types of irrigation, pumps with designed efficiencies that will cut your irrigation power bill, quality pumps that will cost little to maintain.

See your nearby Fairbanks-Morse centrifugal pump or F-M Pomona Turbine pump dealers; or write Fairbanks, Morse & Co., Chicago 5, Ill.

FAIRBANKS-MORSE

a name worth remembering when you want the BEST

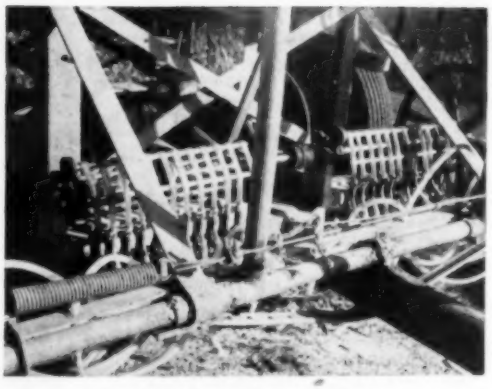
PUMPS • SCALES • DIESEL LOCOMOTIVES AND ENGINES • ELECTRICAL MACHINERY
RAIL CARS • HOME WATER SERVICE EQUIPMENT • MOWERS • MAGNETOS

By Lee DeYoung

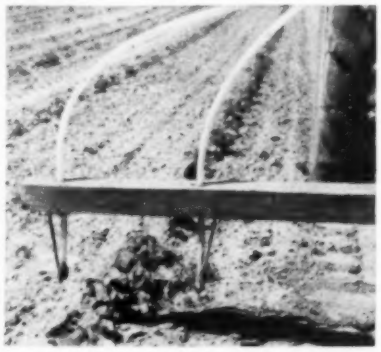
fertilizer by the gallon...

"SIMPLICITY!" That's the answer R. L. Wickam, manager of the Thornwell Orphanage Dairy at Clinton, S. C., gave when asked why he liked liquid nitrogen fertilizer.

Already established in the Midwest, liquid nitrogen is catching on fast across the South. For example, only 3,878 tons were used in North Carolina in 1953-1954. It jumped to 7,054 tons in 1954-1955. Specialists estimate it will be up to 20,000 tons this year. *(Continued on opposite page)*



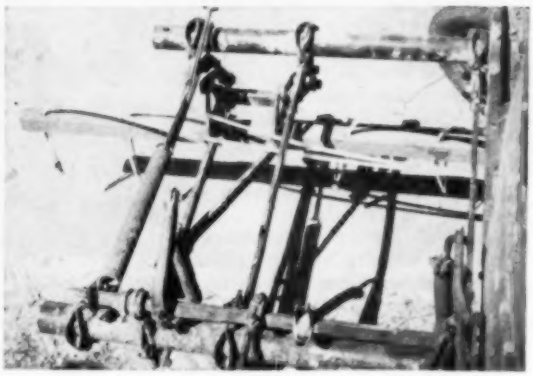
Two 12-hose pumps, mounted on a trail-behind rig with a 20- to 24-foot boom, can apply liquid nitrogen on 60 to 75 acres of small grain or pasture per day. Later, each pump may be mounted on a separate tractor to make sidedressing units for row crops. Powered from one of ground wheels, these reel-type pumps meter accurately regardless of travel speed.



The non-pressure nitrogen solutions require only the simplest of application equipment. Here, a 2x2 wood beam serves as a boom for spacing and supporting the inexpensive plastic hoses which "dribble" the solution on each side of the row for effective sidedressing. A plain steel drum, mounted on the tractor, can supply the non-corrosive plastic hoses by gravity.

Side-dressing corn, with minimum of equipment—old drum, metering device and hoses. Liquid nitrogen may also be applied at planting, broadcast and small grains and in irrigation water.

Here's the 2x2 sidedressing boom as seen from the tractor seat. With the supply tank mounted behind the driver, the sides of the tractor are free of fertilizing equipment and there's a clear view of each row. For fertilizing while cultivating, the hoses are attached to the cultivator shanks.



Cultivating and applying liquid nitrogen sidedressing. Many farmers are also using liquid nitrogen on pastures and small grains, and custom operators with large truck-mounted tank and wide boom rigs can topdress up to 100 acres per day.

Pumps do all the heavy work of lifting and moving liquid nitrogen. Simple and inexpensive application equipment is encouraging many farmers to buy their own equipment. Dealers often supply the "nurse" tanks as shown at right.

. . . they're pouring it on!

Extension demonstrations and farmer experiences have already proved this new nitrogen fertilizer fully equal to other forms of nitrogen. For example, G. P. Copeland of Clinton, S. C., top-dressed a 30-acre fescue pasture with liquid nitrogen last fall and pastured 60 cows on it from December 15 to April 15, when he took them off to let the fescue make a seed crop.

The distribution of liquid nitrogen has been largely limited to farming areas within 30 to 40 miles of dealers who handle it. (Don't confuse it with anhydrous ammonia, which is a high-pressure form, becoming a gas when it's applied.)

The way to decide whether it is a good buy for your farm is to find out what a pound of nitrogen in this form costs. In areas where it is available, it generally costs about the same as solid nitrogen. In some areas near fertilizer manufacturers or their dealers who have liquid nitrogen storage tanks, you can buy liquid nitrogen and have your dealer custom-apply it to your field. Cost is generally no more than the straight, unapplied price of solid nitrogen.

Liquid nitrogen is available either in non-pressure or low-pressure solutions containing up to 41 percent nitrogen. The non-pressure solutions can be handled much the same as water and can actually be stored *(Continued on page 42)*

Supply tanks mounted on a four-row planter enable this operator to plant and fertilize at the same time. Liquid nitrogen may be applied at planting, as side-dressing, broadcast on pastures and small grains, and in irrigation water.

This tractor, equipped with a 75-gallon tank, can put down a 40-pound-per-acre nitrogen sidedressing to 4 acres without having to stop for refilling when using the 21 percent non-pressure solution. This rig covers four rows at a time.

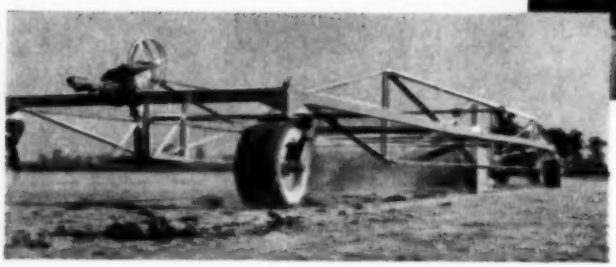
Land shaping: Ben Yandell checks progress of job on a field he is preparing for irrigation, using his own equipment. Row-crop tractor and elevating scraper in background assist Yandells' heavier equipment in job.

Now it's LAND ENGINEERING *for row crops!*

On this and the following pages:

New ways to make mechanization practical.

1.



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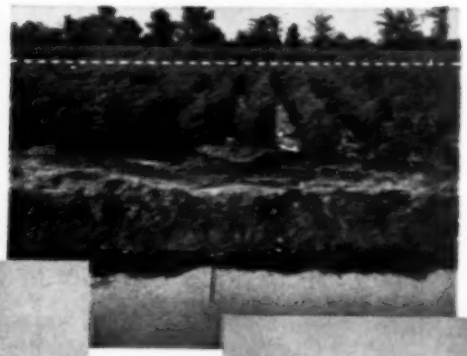


3.

1. Final smoothing in land shaping is done with Yandells' land plane. Plane can also be used to maintain condition after complete forming job.

2. Portion of this field in foreground wasn't shaped properly to permit drainage. So spring rains flooded this portion and stunted the cotton.

3. After complete leveling, Yandell easily irrigates this field by gravity flow using suction tubes to lift the water over levee into the furrows.

For flat land . . . it's

LAND SHAPING!

By Bob Nichols

RICE farmers and Southern Plains wheat farmers who flood-irrigate have been leveling land to grade for a long time. Now, some Cotton Belt farmers are finding that complete, engineered land forming—or shaping—can pay off for row crops, too.

What Is Land Shaping?

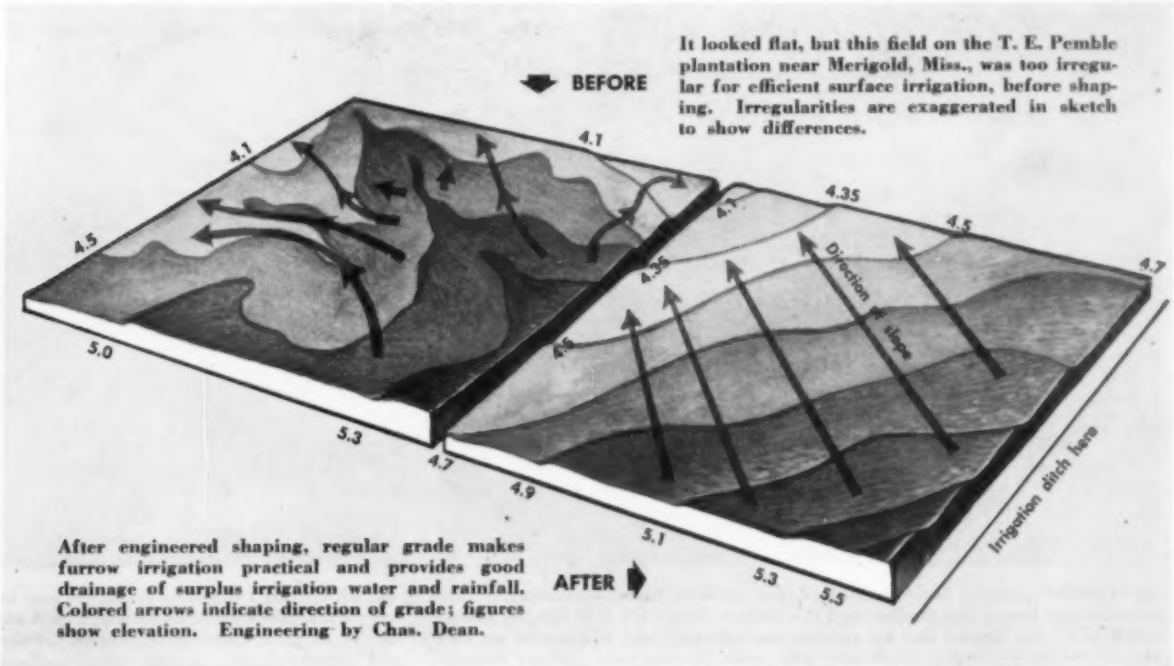
Definitions differ, but land *leveling* is usually thought of as the rather simple job of going over a field with a land plane (see photo on opposite page) or similar implement to smooth out minor ridges and humps, and drag dirt into low spots. It isn't thought of as leveling land *to grade,* or as moving large amounts of dirt long distances over the field, following a skilled engineer's survey and plan for improving the entire terrain, slope and grade of a field, or filling drainage ditches. That's usually called land *shaping* or *forming* (see sketches below).

Even on land which seems level to the naked eye, land forming can make a difference, however. Even slight irregularities of terrain and slope can make furrow irrigation of row crops impractical, and cause poor drainage when it rains. A field which has no slope at all may need to be shaped so it will have a slight, regular slope in the right direction to permit surface irrigation and proper drainage. Sometimes, it's even desirable to reverse the slope of a field to fit irrigation and drainage plans.

How It Pays Off

Surface irrigation, made possible by land shaping, is the payoff on the Yandell Brothers' efficient Mississippi Delta plantation at Vance. Last year, owner-operators Ben and Billy Yandell did a shaping job on a part of their cotton acreage, in preparation for irrigation. They liked the results so well that they're going ahead to shape all the row crop land on the plantation.

The Yandells do their own surveying and own their own earth-moving and leveling equipment (photos on opposite page). Even so, their cost per acre for shaping is higher than the approximately $50 to $75 an acre average cost for shaping most nearly-flat land like theirs. That's partly because of the numerous old drainage ditches and ridges on their plantation. And they're willing to spend more to create the extra-large fields that make their mechanized operations easier and cheaper. *(Continued on page 31)*



It looked flat, but this field on the T. E. Pemble plantation near Merigold, Miss., was too irregular for efficient surface irrigation, before shaping. Irregularities are exaggerated in sketch to show differences.

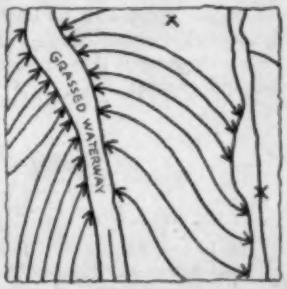
After engineered shaping, regular grade makes furrow irrigation practical and provides good drainage of surplus irrigation water and rainfall. Colored arrows indicate direction of grade; figures show elevation. Engineering by Chas. Dean.

For gently rolling land . . . it's

PARALLEL TERRACING!

By Lee DeYoung

Here's a "before" view of rambling terraces, laid out strictly on the contour. Numerous short, point rows between each terrace make it hard to use machinery efficiently.



Here's the same field, "after" parallel terracing. Spacing between the terraces is much more uniform and there are only a few short rows in the more uneven areas.

RAMBLING terraces that came close together in places and ran far apart in others . . . terraces filled with many short point rows that made it time-consuming, costly and all but impossible to use machinery efficiently . . . and a difficult, tricky job of terrace maintenance.

Those were the problems A. P. Hane, of Calhoun County, South Carolina, had in a gently sloping 51-acre field. The rambling, on-the-contour terraces were fine for drainage, but they certainly left much to be desired.

Then, Equipment Engineer J. T. McAlister and Work Unit Conservationist J. L. Wilson, of the Soil Conservation Service, went to work with their level on Hane's field. They took the "ramble" out of the terraces and laid them out to run an equal distance apart all the way across the field. Each terrace was parallel to the terraces above and below it. There weren't any little "knots" of land here and there between the terraces that had to be filled with short rows, because each row ran the full length of the field.

But they didn't stop with just doing away with the short point rows. They went an important step further and designed the terraces and the distances between them to *fit the row spacing and equipment* of Hane's particular farming operation. Hane worked this field with four-row equipment spaced on 38-inch rows, so they designed the base of the terraces wide enough to allow him to plant four rows on both the upper and lower slope of the terraces. And, machinery can cross the terraces without dragging.

The horizontal distance between the terraces were also made exactly wide enough to use some multiple of four rows, so that Hane wouldn't have any *(Continued on page 25)*

● Parallel terraces are "engineered for modern farm machinery." The channels are broad and shallow and the terrace slopes are laid out the proper width to let the farmer use his regular row spacings and equipment on each slope. When necessary, machinery can cross the terraces without damage.

● By varying the grade, engineers can lay out parallel-terraced fields in which each row carries its own water, even though terraces and rows are not on the strict contour.

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Mam'selle Pom Pom is a "dream" for any teen-ager's room. Her luxurious coat is soft shaggy rayon plush. From the tip of her red tongue to her long black eyelashes, she's a "lady." Pom Pom flashes a bright red plastic collar and silver lead chain. And she's a big poodle . . . over 20" high. Available in pastel colors — a real buy for

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Chucky-the-CHIMP is so cute you won't be able to resist hugging him. His impish little face with rosy cheeks, brown eyes and grinning mouth is hand painted on soft flesh colored plastic. His big floppy ears, hands and feet are all flexible vinyl. He's dressed in his best black and yellow rayon plush suit complete with pink bow tie. Youngsters of all ages will love playing with Chucky. He's 22" high and

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Pete-the-Panda is soft and cuddly. His "fur" is fine rayon plush, the kind you love to touch. His little bear nose, red tongue, button eyes, and big ribbon bow make him irresistable for the younger set. Available in pastel colors. And he's over 26" tall. Talk about value . . .

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JACK-THE-CLOWN is an ole time favorite, forever fascinating to kids of all ages.

Press the button and up jumps JACK with a big smile and a friendly little noise. He's brightly dressed, has a painted plastic head, and is as jolly a character as you'll ever want to meet.

The colorful box is metal reinforced, and measures 4½" x 4½" x 4⅝". A real value.

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COTTONCAST

By Gerald Dearing

THERE IS CAUSE FOR ELATION and cause for concern in the report of the Department of Agriculture that there is a predictable relationship between the amount of water and the amount of nitrogen used in making the crop and the final yields.

THE USDA SAYS MOISTURE AND FERTILITY, in the proper combination, are both essential for most efficient yields of irrigated cotton. Tests show that irrigation won't give much of a yield increase if soil fertility, especially nitrogen, is low. With heavy (41), medium (21) and light (12) irrigation treatments near Yuma, Arizona, top seed cotton yield was only 1,390 pounds per acre with a 60-pound nitrogen application, but increasing nitrogen rate to 150 pounds raised yields by about 400 pounds under all three treatments. In each instance, nitrogen was the limiting production factor. The highest yield, 2,670 pounds, was from a combination of heavy irrigation and 375 pounds of nitrogen.

TO THE FARMERS IN THE RAINGROWN BELT, where supplemental irrigation is available, this is welcome news. Those who have tried the irrigation and heavy fertilization this year are harvesting three and more bales to the acre.

TO THOSE FARMERS WHO HAVE A WATER PROBLEM, whose units are too small for irrigation because of the expense, it is cause for great concern. This development, combined with the increasing use of machinery, may change the whole pattern of cotton production. It is possible, if the practice is carried out to its possible limits, that the alluvial lands of the Mississippi Valley, the irrigated areas of the Texas High Plains, and the rich valleys in Arizona and California can produce all the cotton America needs. The development, if it comes will be slow, but the success of those who used irrigation this year is stimulating the expansion of highly irrigated, highly fertilized production.

WE SUGGESTED EARLY IN THE SEASON, and say it again: Don't sell your cotton on the basis of the green card class; sell it on the actual samples. If the buyer won't pay you over the loan, put the cotton in the loan. If he will, sell it to him. If he's willing to pay more for it, he probably wants it more than the government does. If you really think the government class has been too severe, you can have it reviewed for a fee of 25 cents.

HANG ONTO YOUR HAT. Cotton is about to take another ride on the merry-go-round. The export sales program, which was designed to make cotton competitive abroad and more stabilized at home, is working -- too well, in fact. Exports are soaring. Next year is the soil bank. If the bank cuts production by as much as two million bales, it may mean that the support level is somewhere between 83 and 89 per cent of parity. This increase in price will stimulate the growth of foreign cottons again, costing us export markets. It will make cotton less competitive with synthetics at home, costing us domestic markets. With smaller markets come more acreage restrictions, greater surpluses.

AMERICAN TEXTILE MILLS HAVE BEEN FREED to move forward with confidence with the assurance that cheap Japanese textiles will not flood their markets at unexpected moments. This means a greater use of cotton. The Japanese have agreed to limit shipments to the United States to 150 million yards of textiles, plus the equivalent of 50 million yards in textile products. More important, they have agreed to limit the types of goods shipped. Last year they all but destroyed the American tissue gingham and velveteen markets by concentrating their shipments on these two fabrics. Faced with the uncertainty of who would be hit next, American mills cut back their inventories, which meant curtailment of operations and less cotton used. They pressed for an agreement with the Japanese which would end the uncertainty. To get it they agreed to giving the Japanese a third more market than the Japanese had said they wanted. In return they obtained assurances that no segment of the industry would bear the full weight of the Japanese competition. The agreement should restore confidence, permit the greater promotion of cotton and result in greater consumption next year.

(Only cotton news-and-forecast page in any farm magazine—and fastest writer-to-reader service)

Parallel Terracing

(Continued from page 22)

Here's a seemingly "flat" field that could use parallel terraces to good advantage.

Here's an equally "flat" field that is parallel-terraced. Photo taken the day following a 2.7 inch rainfall which fell in less than an hour.

odd rows left over between terraces when working with his four-row equipment. If he changes his row spacing later, he can still put four rows on both slopes of the terraces and space his rows across the field from the lower slope of the upper terrace down to the upper slope of the next terrace. That way, any irregular spaces due to changing row width will fall in the lower terrace channel and can be left unplanted.

Grassed waterways carry the runoff out of the field. The waterways are also handy for turning machinery at row ends and serve as field roads.

Some farmers, such as D. L. Yarbrough of Autauga County, Alabama, also use the grassed waterways as a direct source of profit. Yarbrough figures that he netted about $125 an acre this year from his waterways by a combination of grazing, harvesting crimson clover seed and cutting several tons of Bermuda hay.

The use of the parallel terraces, which have been widely used in Ala-

(Continued on page 29)

Check these DEKALB CHIX RECORDS against your own flock— Are you getting Top-Notch returns?

EGG PRODUCTION

DEKALB'S RECORD—*Eggs per bird (hen day basis)*

Fifth California Random Sample Test.....267 eggs per bird
Sixth California Random Sample Test.....271 eggs per bird
First Texas Random Sample Test.....253 eggs per bird
First Texas Random Sample Test.....239 eggs per bird
Fifth New York Random Sample Test.....219 eggs per bird
First Missouri Random Sample Test.....240 eggs per bird
First Missouri Random Sample Test.....238 eggs per bird
First Missouri Random Sample Test.....243 eggs per bird

LIVABILITY

DEKALB'S RECORD—% *Livability from baby Chix to End of Test*

Fifth California Random Sample Test.....92% Livability
Sixth California Random Sample Test.....90% Livability
First Texas Random Sample Test.....94% Livability
First Texas Random Sample Test.....96% Livability
Fifth New York Random Sample Test.....73% Livability
First Missouri Random Sample Test.....93% Livability
First Missouri Random Sample Test.....96% Livability
First Missouri Random Sample Test.....92% Livability

The above figures show what every DeKalb entry has done in completed Official Random Sample Tests (Aug. 1, 1956.)

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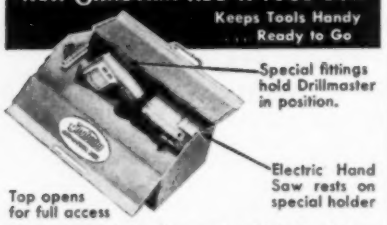

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For hilly land . . . it's

CONTOUR SUBSOILING!

IT'S no cure-all, but under some conditions subsoiling—or panbreaking—looks like a promising idea for erosion control and moisture conservation on rolling land. Subsoiling on the contour—to shatter deep hardpans and open numerous moisture-catching deep cracks in the soil, without pulverizing the surface soil—can be an inexpensive way to hold moisture where it falls, under some conditions.

It Worked in West Tennessee

Chas. Barham, Obion County, Tennessee, tried it on all but 10 acres of a moderately hilly field in 1953, and figures he's still getting benefits. Soybeans on the subsoiled acreage made at least seven bushels more per acre than on the non-subsoiled portion the first year. And, even after the first year, rain still soaked into the deep slots made by the subsoiler, instead of running on down the slopes of Barham's up-and-downhill rows.

Barham subsoiled in the late fall, to catch winter and early spring rains on the field before working it for the soybean crop. He ran the subsoiler shanks about 26 inches deep and about three feet apart, getting deep penetration and a thorough shattering effect between the slots made by the subsoiler. Encouraged by the results of his first trial, he wants to subsoil more acres this fall.

Contour Rows, Too?

While conservationists generally don't encourage straight up-and-downhill rows on rolling land like Barham's, his light-textured surface soil doesn't offer much erosion problem except during heavier rains. That's when the subsoiling helps most, to catch all of the rain where it falls. And planting rows on the contour, following contour subsoiling, would be difficult for him because tractor and machinery wheels would often sink into the soft areas left by the subsoiler.

Where conditions permit it (and where subsoiling would pay off), running the rows on the contour *and* subsoiling on the contour could be a better practice.

Best Shattering When It's Dry

It's generally recommended that subsoiling be done when the soil is dry, if it's to get best results—the drier the soil, the better the shattering effect and the more moisture it will catch. For fall-seeded crops such as small grains, subsoiling would usually get its best results done in midsummer.

Subsoiling doesn't always pay off, of course. A survey of 12 states, made by Virginia Extension Service showed that research workers in only one of the 12 states reported much better yields from extra-deep tillage. Except in Delta areas, experimental results have too often been either inconsistent or unfavorable.

There's still disagreement on the subject (as FARM AND RANCH reported in reviewing deep-tillage information last year). Some claim it'll work only in breaking the man-made plow pan—six to eight inches below the surface—and not the deeper, usually denser natural pans 10 to 20 inches or more down.

How Can You Decide?

Best way to decide is to dig down in a typical spot in your field with a shovel, examining the density of the soil as you go down. If you find hardpans—man-made, natural, or both—it could be worthwhile to try deep subsoiling, on an acre or two, anyway. Even if it merely lets moisture soak in that would otherwise run off, it could be a worthwhile investment.

By Bob Nichols

CROPS AND SOILS

New fumigants control Nematodes

NEMATODES, those almost-invisible little worms that live in the soil and feast on crop roots at your expense, are really coming in for their share of attention these days . . . as reported in "Root Robbers and Profit Pirates" in the April issue of FARM AND RANCH.

Scientists are busily at work hunting new, better and cheaper methods of control. DD and EDB, the two most widely used fumigants at present, give good control when applied before planting and are relatively cheap —their main limitation is they are toxic to living plants and can't be used in growing crops such as established perennials, vineyards and orchards.

There is no evidence to show that individual kinds of nematodes, such as root knot, build up an immunity to a certain fumigant. But one fumigant may be more effective than another against a particular kind of nematode. For example, North Carolina experiments have shown that EDB will give somewhat better control of stunt nematode than DD, whereas DD is superior to EDB in controlling the meadow nematode. Both materials give good control of root knot.

New Ones to Use

Some of the newer fumigants which have been developed include Fumazone, which shows promise as a pre-planting treatment and for sidedressing applications around certain perennials; Nemagon, which can be applied around the roots of living plants; and VC-13 Nematocide, which is already accepted in some states for use on turf and ornamentals and shows promise for use on citrus and truck crops. Others are Vapam, which can control some other soil-borne pests and insects as well as nematodes and can be applied in irrigation water as late as seven days before planting; Dorlone, a general nematocide for controlling a wide range of nematode species attacking tobacco; and Telone, a general nematocide for pre-planting soil treatment for a number of crops.

If you suspect nematode damage, consult your county agent about the best fumigant to use. He is familiar with the main kinds of nematodes in your area and can recommend the particular fumigant to give best control.

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Tree Talk

by

Will Rusch

One of the questions I'm most frequently asked by farmers planning to buy a chain saw is, "How do I go about picking the right one?"

Just as there are certain rules of thumb for buying a station wagon, a pickup truck or a flatbed, so are there factors to consider in selecting the proper chain saw.

Probably the most important of these are how often you'll be using the saw and what kind of cutting you'll be doing. For example, many farmers who use a chain saw off-and-on during the year for firewood, orchard work and general chores are extremely high on the McCulloch 33B; they like the fact that though it sells for a very low price, it still has the "feel" and features of a professional saw. It's built to give years of service, yet costs only $213 up.

For the man who wants highest speed cutting in a small saw and is willing to pay a little more, it's worth considering either the McCulloch Super 33 or the new *direct-drive* D-44. Both are lightweight but very powerful—well suited for cutting pulpwood and medium sized timber. The prices are only $238 up for the D-44 and $258 up for the Super 33.

Then, there's the "farmer's friend," another name for the McCulloch model 47. Though a little heavier, at 30 pounds, than the others we've mentioned, the 47 is a real workhorse — recommended for all types of heavy-duty cutting where its slightly greater weight is not a drawback. It sells for $304 up.

For big timber and for production logging, you'll be pleased as can be with the McCulloch 73, most powerful of all one-man saws. This one really cuts the big stuff down to size in a hurry, though it weighs only 34 pounds with blade and chain. It's priced at $399 up.

Especially popular in the South—though they're now spreading to other parts of the country — are the plunge bow saws. Pulp cutters like the bow because it permits cutting with the tip, thus eliminating stooping while felling or bucking. Prices start at $258 for the bow saw.

For free illustrated folders on the McCulloch line, just write to me, Will Rusch, McCulloch Motors, Los Angeles 45, Calif.

By the way, McCulloch dealers are sure stirring up lots of excitement right now with their gigantic Saw-Draw contest. A total of 150 new D-44 saws will be given away *absolutely free* to the lucky people whose entry blanks are drawn. This is really a good one . . . nothing to buy at all. So, take my advice and see your McCulloch dealer right away!

Get in on the fun of the McCulloch Saw-Draw!

5-6024 ©1956

WASHINGTON WIRE

By BILL KENNEDY
From the Nation's Capital

And then the Rains Came

Washington, D. C.—Soil Bank officials on high administrative authority have permitted a bunch of midwestern corn growers (in Nebraska and Iowa particularly) to wiggle out of Acreage Reserve contracts without paying the fine demanded by regulations. The farmers "signed up" thousands of acres of planted corn in the Reserve at a time when it seemed that a drouth would keep them from making a crop . . . but then it rained. They decided they wanted out and cried "foul" when it was pointed out that they would lose their payment *plus a 50 percent fine.* That part hadn't been fully explained, they claimed.

Mr. Benson said, on questioning, that he felt the farmers had made an innocent mistake — maybe it *wasn't* explained well locally. At any rate, the penalties were not assessed.

But the Secretary's attitude served stern notice that such tolerance woud not be permitted another year.

He will have a hard time convincing political opponents that this was not for political expediency. Yet—the Democrats have failed to make political hay of this decision. They, too, want the votes of these wayward farmers—they can't very well criticize a man for doing them a favor.

It is pretty obvious that Republicans plan to put some "teeth" into the Soil Bank program, once the election is over. Flexible supports have been defended; will be continued.

If the Democrats Win

Mr. Stevenson has said, "We will administer vigorously the Soil Bank." He continues by saying he would urge consideration of a "legume bank"—changing the emphasis from *reducing cash crops to increasing the acreage of soil-building crops.* Presumably this wouldn't require small farmers to use up their acreage of cash crops in order to participate in the Soil Bank.

"Then how does it work to reduce surplus production?"

The Democratic National Committee's answer to this one is that ". . . the incentive payments will be high enough to encourage reduction."

It is a good bet the Democrats would return support prices to 90 percent of parity.

Another promise is that they'd turn the farm program back over to the farmers.

Cotton Deliberately Down Graded?

Director Jerry Overby of the Cotton Division, Agricultural Marketing Service, and Deputy Director Rodney Whitaker (exclusive FARM AND RANCH interview) came up with pretty good answers to the claims about down grading of cotton. They produced figures for us to show that grades are actually running a little higher than last year; although they admit that there is more light-spotted cotton than in 1955.

They flatly deny that personnel in the 35 classing offices have been instructed to down grade cotton. And to a claim that inexperienced graders are being used in Dallas they produce figures to show that graders in the Dallas office have an average experience of 30 years.

After the Atlanta meeting the Atlanta Cotton Association ran a check on 75 bales of cotton that had been government graded. Their report showed an agreement on the grade of 34 bales, and agreement on the staple length of 29 bales; they raised the grade on one bale, and the staple length on four; they lowered the grade on 16 bales and lowered the staple length on 18.

As to why a difference between the light- and heavy-spotted cotton has not been recognized in the loan program, we have received no satisfactory answer. It was pointed out, however, that cotton in storage continues to go down in grade.

The latest first for the Southeast

Parallel Terracing

(Continued from page 25)

bama (where over 30,000 acres are parallel terraced), is spreading to South Carolina and other Southern states. They have several advantages which appeal to farmers with gently rolling fields. By greatly reducing or doing away with the short rows in a field, users say parallel terraces save 10 to 15 percent of cultivating time, and make it easier to plant, cultivate and harvest. They also reduce crop damage because machinery doesn't have to turn around in the middle of the field to work short rows.

These terraces are also well worth considering on those flat fields which look like they just don't need terracing until a heavy rain shows up sheet erosion and crop damage here and there.

But probably the most outstanding, long-range advantage of parallel terraces is that they present, for the first time, a terracing and field layout system that's designed to fit the field to the machinery. Parallel terraces are not just "engineered" . . . they're "engineered for modern farm machinery."

McAlister points out that fields to be put in parallel terraces should have a gentle, uniform slope. If the slope is very uneven or steep in parts of the field, parallel terraces can cause erosion. Sometimes, a small amount of soil moving is done to overcome this, or regular contour terraces can be used even though they might leave a few irregular areas between terraces. Several Alabama farmers have found it best to sod down these irregular areas.

Parallel terraces don't ignore or go against the contour . . . they are simply a common sense compromise between the wandering waves of a contour line and a perfectly straight line. Each row should drain the middle above it, much the same as in contour-terraced fields.

Parallel terraces are often closer together than normally, but since crops can be grown all the way over the terraces, this close spacing is actually an advantage. It reduces the drainage area of each terrace and makes it possible for the SCS technician to vary the terrace grade within reasonable limits as necessary. This ability to vary the grade along the length of the terrace is the secret of how a parallel terrace, which isn't absolutely on the contour, can still give good drainage.

If you're bothered by point rows, steep terraces that machinery can't cross and terrace widths that are difficult to row-crop efficiently with machinery, maybe it will pay you to consider parallel terraces on your gently sloping land.

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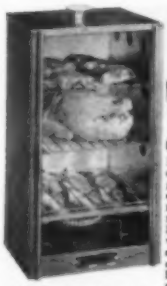

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America's top FFA member, Wesley Patrick, is proud of the small herd of cattle that have helped him build a small diversified farm into a profitable operation —largely on money that he borrowed.

He wouldn't wait to work

So, he made himself FFA's Star Farmer of America

By Bill Kennedy and Albert Morris

WESLEY PATRICK of Quitman, Georgia, credits his drive to fame as a young farmer to know-how, hard work and his wonderful parents. Certainly, these things helped make him the 1956-57 Star Farmer of America. Yet, because he had these things, he passed the bottleneck that stops many young farmers, without even recognizing it as a big problem—he crashed the credit barrier.

Wes knew his banker — and his banker knew him. He was recognized as a "good risk." He was buying a 130-acre farm under a contract of annual payments (and incidentally, he is ahead of schedule on his payments), but he needed money from the bank for a tractor and equipment, a pick-up, a $500 farrowing house and other operating expenses.

"Wesley had only a few head of livestock for collateral—but he had the rare combination of ability, training and willingness to work that gave us faith in him," says his banker, W. H. Williams, of the Citizens National Bank, at Quitman.

"We let him have money then, and he owes us money now. But he has never once failed to pay a note like he said he would — even in distressingly dry 1954."

At this bank the young farmer was able to arrange term loans extending as long as three years. And the banker is proud of him. Wesley cleared over $3,300 the first year he farmed.

Wesley Patrick didn't concern himself with what Uncle Sam should be doing for him. What he did was to put the entire farm to work with a diversified cash crop plan. Of the 130 acres, 72 are now in crop land, 20 in permanent pasture, 33 in woodlands and three in sodded waterways.

The truck crop acreage will go to oats this winter after having produced two summer crops (watermelons followed by squash and peas). He'll graze the oats until February—then topdress them to produce a grain crop.

Crop yields are not exceptional—but they are good. Every field has been soil tested and is fertilized according to measured requirements. When the "crop's all done this fall," Wesley's work won't be done, because his is a 12-month job. But he'll pay off the notes he has coming due—and have money left for more improvements in the home (he has a wife, Joyce, and a son) and around the farm.

Now is there any wonder they have named him the best young farmer in the country — the Star Farmer of America?

Land Shaping

(Continued from page 21)

However, astute young Ben Yandell figures that their cost of shaping an acre permanently still isn't much more than the cost of just the equipment for irrigating with sprinklers—as they'd have to do if they didn't level. And the saving in labor and pumping costs with surface irrigation of row crops adds up to a lot more each year.

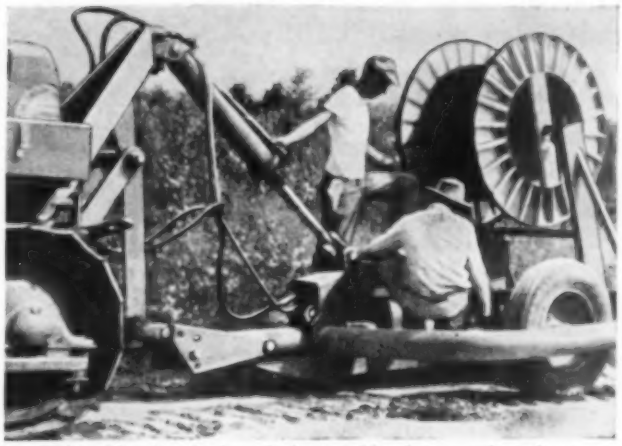
The higher yields the Yandells get after land shaping are largely due to the irrigation it made possible. However, there are some other benefits—ones which would make a difference on non-irrigated land, too. The leveled fields don't stand under water after heavy rains. So crops don't drown out, and machinery doesn't have to wait for the lowest spots to dry out before it can get into the fields. That, plus the ditch-filling and ridge- and bank-removing which are part of a complete land-shaping job, are essential to complete mechanization, even without irrigation, on many farms which are flat but not actually level.

On the Egypt Plantation, in Mississippi's LeFlore County, J. T. Thomas, Jr., and Bob Hardeman hired a contractor to shape 700 acres of their cotton land, at a cost of $60 an acre. They figured the irrigation made possible by the operation produced an extra $80 worth of cotton per acre the first year. And the estimated extra net profit, after deducting costs of irrigation, was about $60 an acre—enough to repay the cost of the forming job. Kay Johnson, another Delta plantation owner, figured that he practically created 20 acres of new land by reforming 100 acres which was poorly drained because of low spots.

There's still some uncertainty about whether land forming may have harmful effects, even on the relatively deep topsoils of the Delta. On the Yandell plantation, where as much as three feet of topsoil was removed (far more than would be removed in most forming jobs), there has been some reduction in vigor of the cotton, and in the yields, where deep cuts were made. However, Ben Yandell believes that it's largely because of a lack of organic matter on the deep-cut areas, and that turning under one or two heavy crop residues—plus normal fertilization—will correct it.

On Mississippi's Delta Branch Experiment Station, and on the Egypt plantation, there has been no apparent yield reduction on the deep-cut areas.

One general recommendation under Delta conditions is to deep-subsoil (panbreak) after the forming operation to relieve any compacted condition caused by the operation.



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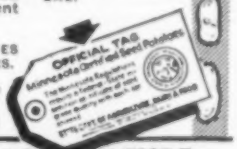

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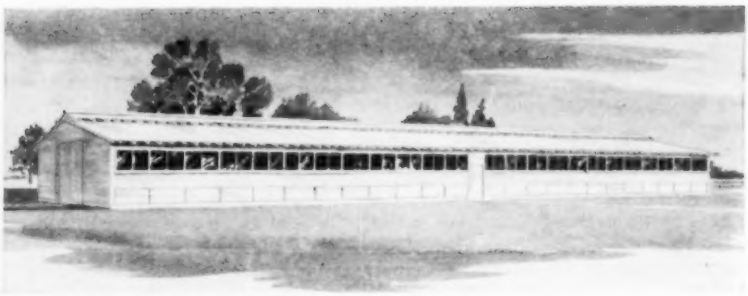

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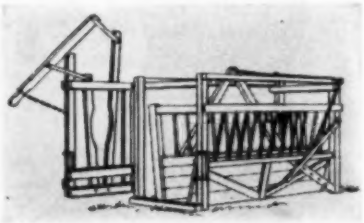

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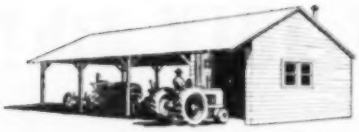

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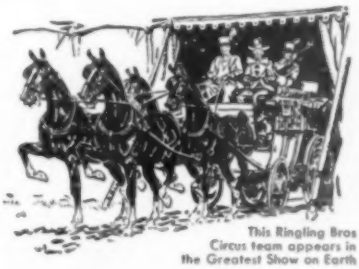

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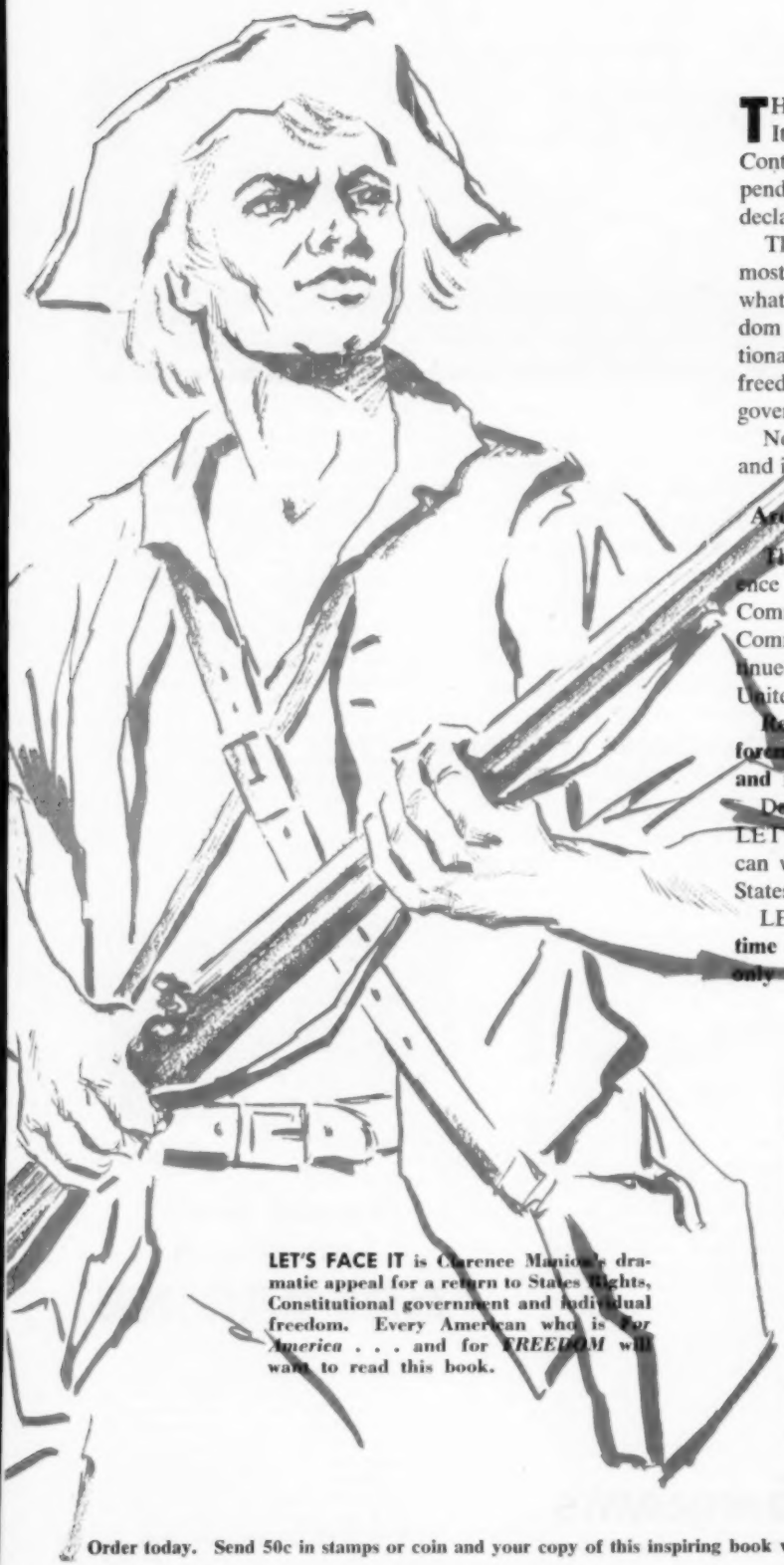

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House Plan No. 96

Ranch style show place

By Price Hobgood

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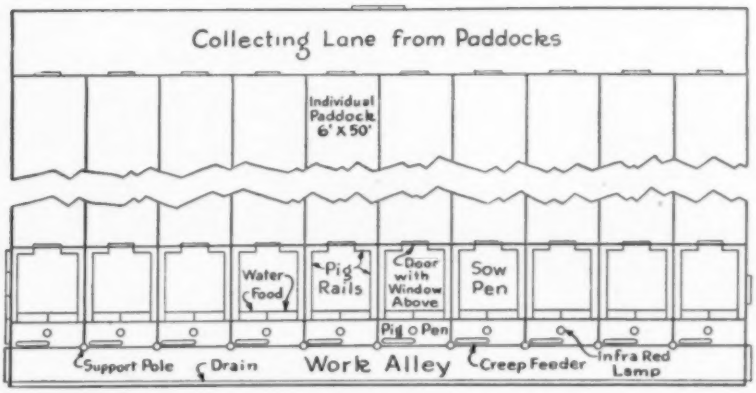
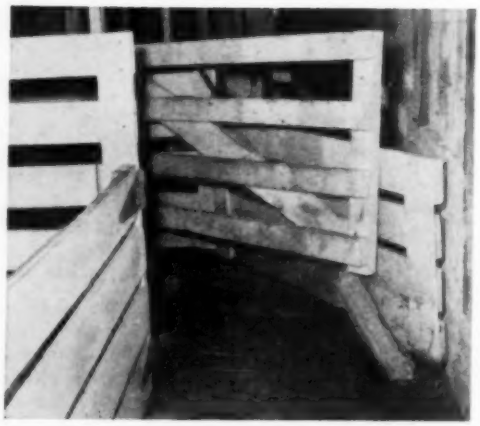


This area of approximately 60 by 66 feet contains complete sow and pig farrowing facilities, including 6 by 50-ft. individual exercise paddocks, for 10 sows. The farrowing house is 60 feet long by 11 feet wide, including the work alley.

Modern pig factory

By Lee DeYoung



Both pen gates swing out across the work alley and make it easy to route the incoming sow into the desired pen. The water and food trough for the sow attaches to the inside of the high gate shown here.

TO HELP farrow, wean and market pigs year 'round, Thomas Hutchinson, of Rutherford County, Tennessee, designed and built what might well be termed a "pig factory."

He used the back side of an existing barn for the inside wall of his new farrowing house, which has a shed-type roof with a three-foot overhang. The concrete floor slopes from the sow pens toward the inside wall, which has a drain running lengthwise.

The 30-inch-high gates, with creep feeders attached inside, are beside the work alley and serve as outer wall of the pig pens. The pens are 20 inches wide and have infra-red lamps overhead which can be easily raised or lowered to vary the heat intensity. Forty-two inch high gates, with crawl space underneath, separate the pig pens from the sow pens.

Thomas cut old hot water tanks in half lengthwise and welded a half circle steel plate in the middle of each half to provide a feed and water trough for each sow. The troughs are attached inside each high gate.

Only one 2 x 4 timber touches the floor in each pen. The rest of the pen weight is hung from the roof by timber supports.

Pig rails extend out eight inches from the sides of the sow pens. A sliding sheet metal door, which can be raised from the alley by rope and pulley, opens from each sow pen to an individual exercise paddock outside. A window is above each sliding door.

The paddocks open into a collecting lane, from which the pigs can be released through fenced lanes into any one of four different pastures.

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DAIRYING

Production shows why profits are high

JUST how much more profit is there with cows that produce 7,000 pounds of milk per year, compared with the old Bossy that only gives 4,000 to 5,000 pounds?

Texas Agricultural Experiment Station economists Ralph Rogers, A. C. Magee and Bob H. Stone analyzed records of 106 Grade A dairy farms in East Texas for a year and came up with some very enlightening figures.

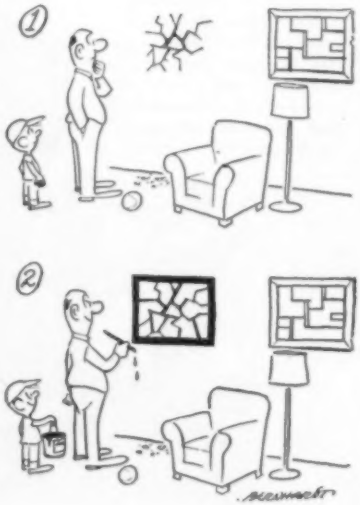
On 43 of the farms, average production was 3,950 pounds per cow; on 32 farms, it was 5,522 pounds; while 31 of the farms averaged 7,118 pounds per cow.

The low producing herds returned $100 per cow for the year after feed costs were deducted. The medium producers gave a return of $156 while the high producers showed a return of $218 per cow.

The high producing cows required $2.50 each to produce 100 pounds of milk; medium producers, $2.60 each; the low producers showed a cost of $3.05 per 100 pounds of milk.

The grazing available and labor requirements were very similar for the 106 dairies checked.

The records point up the extreme importance of having good cows, feeding them according to their production ability, and then taking home more profit per hour labor and dollar invested. —*Tom Milligan*



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DAIRYING

Bring the mill to the cows

By Bob Nichols

YOU may see one of those feed grinder-mixer unit trucks down your road any day now. They're getting more popular in some parts of the country, particularly among dairymen.

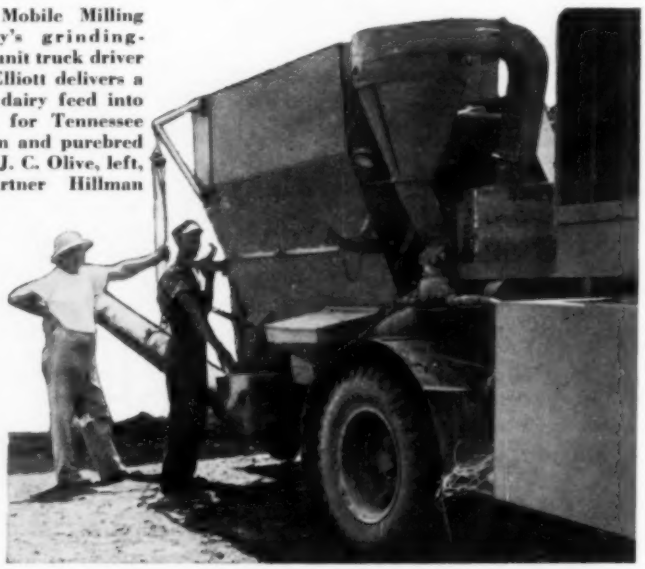
Big appeal of the portable grinding and mixing units — usually accompanied by a feed truck which carries concentrates, supplements and sometimes molasses—is their convenience. For small scale dairymen, especially during seasons when home-grown grain is short, this package service saves a lot of time and trouble.

The Fulton Mobile Milling Co., of Fulton, Kentucky, started with one portable grinding-mixing unit for small-scale dairymen and poultrymen customers in its small trade area. It soon acquired more customers than one unit could handle and has added a second, which even has a built-on corn sheller.

The Fulton unit offers a complete service, not only grinding and mixing its customers' own grain or hay right out of the barn or bin and furnishing part—or all—of the concentrates and supplements, but even figuring out a balanced ration built around the customer's own feeds. The complete ration is then augered back into the customer's bin, ready to start feeding.

Like most such units, Fulton Mobile Milling Co. operates its unit on schedule, even keeping track of which customers are likely to be running out of feed and needing a new supply each day. The customer is contacted by phone to see what he needs, and he even knows what time of day the truck will be there.

Cost per ton of feed ground and mixed varies with the amount and kind, but it's about the same as at the milling plants in town. The big saving, most customers figure, is in the expense and labor of loading and unloading, and hauling to and from town. It's their easiest—and most economical—way to keep the feed bins filled. And the company's manager, Hughey Butler, sees that they keep filled.



Fulton Mobile Milling Company's grinding-mixing unit truck driver LeRoy Elliott delivers a load of dairy feed into the bin for Tennessee dairyman and purebred breeder J. C. Olive, left, and partner Hillman Collier.

there's hustle and bustle and more than that, results—

The Southland is all activity, progress and optimism these days. There's promise and prosperity served Southern style—with loads of hospitality on the side.

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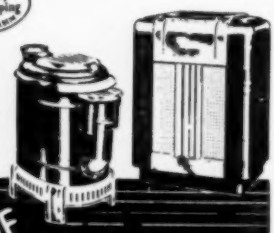

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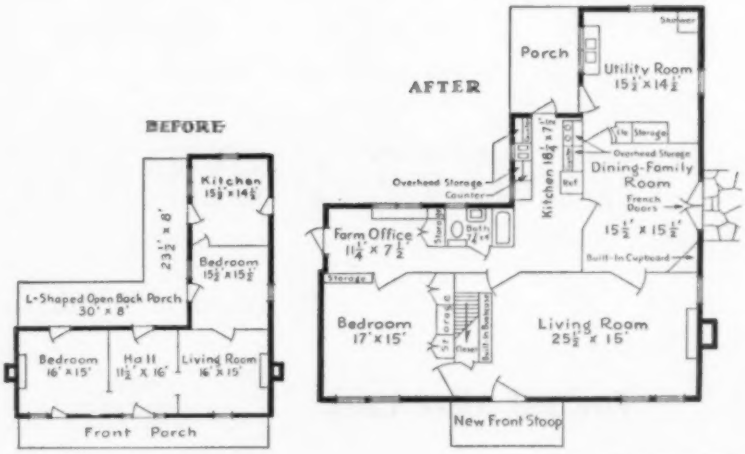
Photo at right shows the Armistead home as it was before remodeling. Below, the gracious, modern farm home that is now 150 years old.

How to streamline a scarecrow

THE original house was 150 years old. It has been remodeled into an L-shaped structure in 1900—with accent on Victorian gingerbread. During the next 48 years it had a succession of owners, tenants and vacancies. Then an industrious young couple got married and things started happening to the old place. Slowly but steadily, Mr. and Mrs. Joe Armistead of Pembroke, Kentucky, have turned the house into a gracious, modern home—while they lived in it, ran a 113-acre dairy farm and raised two youngsters.

Nobody tells the story better than Mrs. Armistead herself. "The first winter we lived in one room. The house became our only quarreling subject: I wanted to remodel immediately. Joe wanted to wait and fix up the farm first. So we compromised—and fixed

(Continued on next page)



up the farm first. When we did start remodeling it was by steps and stages. We'd remodel 'til we ran out of money, then stop 'til we could recuperate financially. We concentrated on the back of the house first, and converted the old bedroom into a dining-family room, the old kitchen into a big utility room and the old L porch into a farm office, kitchen, bath and enclosed back porch. Later, we doubled the front living room windows and fixed up the front bedroom (made double front windows out of a single-window-and-door combination, took out the old fireplace and built in the storage units). The last big push finished us up. We took the walls down to the original logs, removed the partition between the living room and hall, lengthening the room more than half again, put in the new fireplace, and built-ins. Upstairs, we did the same for the walls, took out the fireplaces in both bedrooms, built in storage space and added a front window in the hall and side window in one of the bedrooms.

"Outside, we took off the old porch and built the small one. Finally, we shingled over the old clapboard exterior with white asbestos shingle and added green shutters."

Remodeling Tips

How to Clean and Soften Hardened Paint Brushes

NYLON BRUSHES: Three methods: (1) Soak for 4 or 5 hours in sodium-phosphate to loosen hardened paint. Then wash the brush in hot soap and water and allow to dry. (2) Use commercial cleaner. (3) Soak in benzine or turpentine. Work the brush in this solution ever so often in order to break up the hardened paint. Wash thoroughly in warm soapy water. Rinse with clear, warm water, allow to dry.

BRISTLE BRUSHES. Three methods: (1) Wash in hot soap and water and scrub on ordinary scrubbing board. (2) Use paint and varnish remover, leaving the brush immersed long enough to soften the hard heel. Then soap and water and a hand scrub board. (3) Use either a powdered brush cleaner, following directions on the package, or one of the newer liquid cleaners.

Nailing Oak Lumber

If you have occasion to nail oak lumber, dry or green, dump all your nails in a small can of kerosene and use them directly from there. You will save strength and many bent nails.

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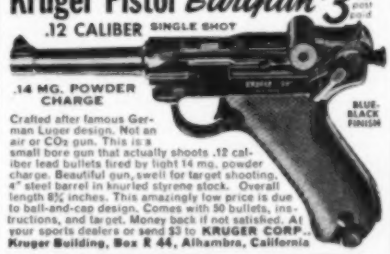

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Pouring It On

(Continued from page 19)

in open containers if necessary.

One of the big advantages claimed for liquid nitrogen is versatility—it can be used in so many different ways. You can apply it with a truck, a trail-behind rig or a tractor-mounted applicator. You can use pumps or simple gravity flow, with broadcast booms up to 36 feet wide or individual row rigs—stainless steel or aluminum tanks, old hot water tanks or discarded steel drums—spraying or dribbling it on the surface or into the soil. You can apply it while plowing, planting, cultivating or laying-by—as a top-dressing or side-dressing—during any season of the year.

Liquid nitrogen equipment can cost you as little as $50 for the simplest homemade gravity flow rig using steel drums, or it can cost you $1000 for a large rig with hose pump, 24 foot boom and 500 gallon aluminum tank.

Nitrogen solutions are corrosive to ordinary containers but not aluminum, and aluminum tanks are being used on many application rigs. However, some farmers are using old steel drums which they can buy for $2 to $3 each. The drums will corrode out after one season's use. But, the farmers feel that they can well afford to replace the inexpensive drums each season; particularly in view of the low first price for their equipment.

In a few areas, liquid nitrogen is being used right along with liquid phosphoric acid and potash — put down as a complete liquid mixed fertilizer. And, research teams at the agricultural schools and manufacturing companies are fast at work helping find still further ways to use it—such as with weed killers and insecticides. In trials at N. C. State College at Raleigh, Dr. Glenn Klingman has successfully mixed 2-4-D with liquid nitrogen and put down a nitrogen side-dressing and weed killer at the same time.

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Country Doctor

Emotions and Infections

OUT of famed Rockefeller Institute comes new evidence of a truth that has been guessed at for years. Studies being made there are showing that infectious diseases are only partly due to germs, that stress frequently lowers the resistance of a person to infection, and that without that stress the germs would often have no chance of causing the disease.

Apparently we human beings are exposed many times to bacteria and viruses that only produce disease when our resistance is lowered.

It has been a common observation of wise grandmothers for generations that exposure to temperature changes, fatigue and a faulty diet can reduce one's resistance to infection.

Dr. Rene J. Dubos of the Rockefeller Institute, one of the world's greatest bacteriologists, goes farther. He believes that personal emotional stress, worry and fear may make it possible for germs that have been living harmlessly in a person to become active and produce serious infection.

An even wiser man put it this way 30 centuries ago, "As he thinketh in his heart so is he."

Polio Vaccine for Adults

Polio vaccine is now available in our community for grown-ups. Up until recently there has not been enough of the precious Salk vaccine for everybody, and its use was restricted to children and pregnant women.

Now the supply is more adequate and in most communities anyone can get the vaccine from his physician. The health departments have been furnishing the vaccine free for children in most states under a special program. The vaccine for adults is being distributed through private rather than public channels.

The public should understand that polio is not a disease confined to children. In fact, last year one-fourth of all cases in our country were in persons over twenty years of age; eleven years ago only one-eighth of cases were adults.

With poliomyelitis becoming more and more a disease of adults it is wise for all to be vaccinated.

—*Robert Metcalfe, M.D.*

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Fewer losses... less feed needed... bigger profits... Just follow this Red Devil Lye Sanitation Plan!

"Success with pigs depends very much on the sanitation program," reports a University of Illinois Bulletin. Many farmers farrow 2 extra, healthy pigs per litter...greatly reduce losses, have almost no runts and produce faster gains on less feed—*by better sanitation alone.*

A Dept. of Agriculture Veterinarian also states that pigs farrow best in houses thoroughly cleaned with boiling water and LYE.

Yes! Red Devil Lye *disinfects* as it cleans...cuts right through dirt and filth ...destroys roundworm eggs ...combats chief internal cause of small, runty litters and pig loss. RED DEVIL LYE lightens labor...costs little...raises cash income!

RED DEVIL LYE

ONE-MAN SAWMILL LOW AS $50.00 DOWN

Take BELSAW Portable Sawmill right to the trees — turn out valuable lumber for home and farm — sell to local yards — make up to $50 a day custom sawing for neighbors. BELSAW lasts a lifetime. No crew needed. Power with tractor or auto engine. Beginners get excellent results. Send today for FREE BOOK.

FREE BOOK

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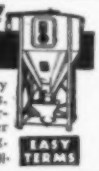
BROWER *Whirlwind* FEED MIXERS



Mix your own cattle, hog and poultry feeds and save up to 80¢ per 100 lbs. Fast mixing, low cost operation, perfect blends. 5 sizes, 700 to 4000 lbs. per batch. 30 day trial. Write for Catalog.

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Please rush full-size products for FREE TRIAL and Money-Making Plans.

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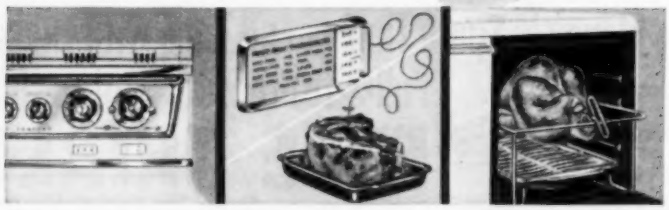
It's always fun to cook automatically in this new Hotpoint Custom Cooker and Server

Delicious burgundy stew . . . get the recipe for this exciting dish from your Hotpoint Dealer — free!

Super De Luxe Hotpoint. Color-lighted pushbuttons. Super-Matic Controls. Two automatic ovens. Super "2600" Calrod® unit. Custom Cooker and Server.



The brains of the range! Automatic Control Center guards both time *and* temperature for top-range or oven cooking.

Read it on the back panel! New Roast-Right Meat Thermometer assures you of just-right roast meats and fowl every single time.

Your turn for delicious barbecues! Automatic Rota-Grill bastes as it turns—or replace it with Handi-Over Grill.

You'll cook in it—serve in it—wash it like a plate. Just one of many automatic features you'll find in this Hotpoint Electric Range!

Here—pictured in the new Hotpoint Custom Cooker and Server—is a new trick with an old favorite. It's Burgundy Stew. And it's cooked with wine, unusual spices, and herbs.

In the old days, you sat over a dish such as this like a mother hen so as not to "cook out" the delicate flavors. But now—it's automatic! Automatic *time*. Automatic *temperature*. And more accurate than ever before, regardless of cooking care.

Nicest thing about this new Hotpoint Electric Range, though—*everything's* automatic. Top-of-the-range *and* oven cooking. Even deep-fat frying! Both Super Ovens are fully automatic. The Rota-Grill is automatic. The revolving Handi-Over Grill is automatic. There's even an automatic Roast-Right Meat Thermometer to tell you when roasts are perfect for *your* taste. In short, this fully automatic Hotpoint Electric Range brings out *all* your cooking talents. See it—in five striking new Colortones or classic white.

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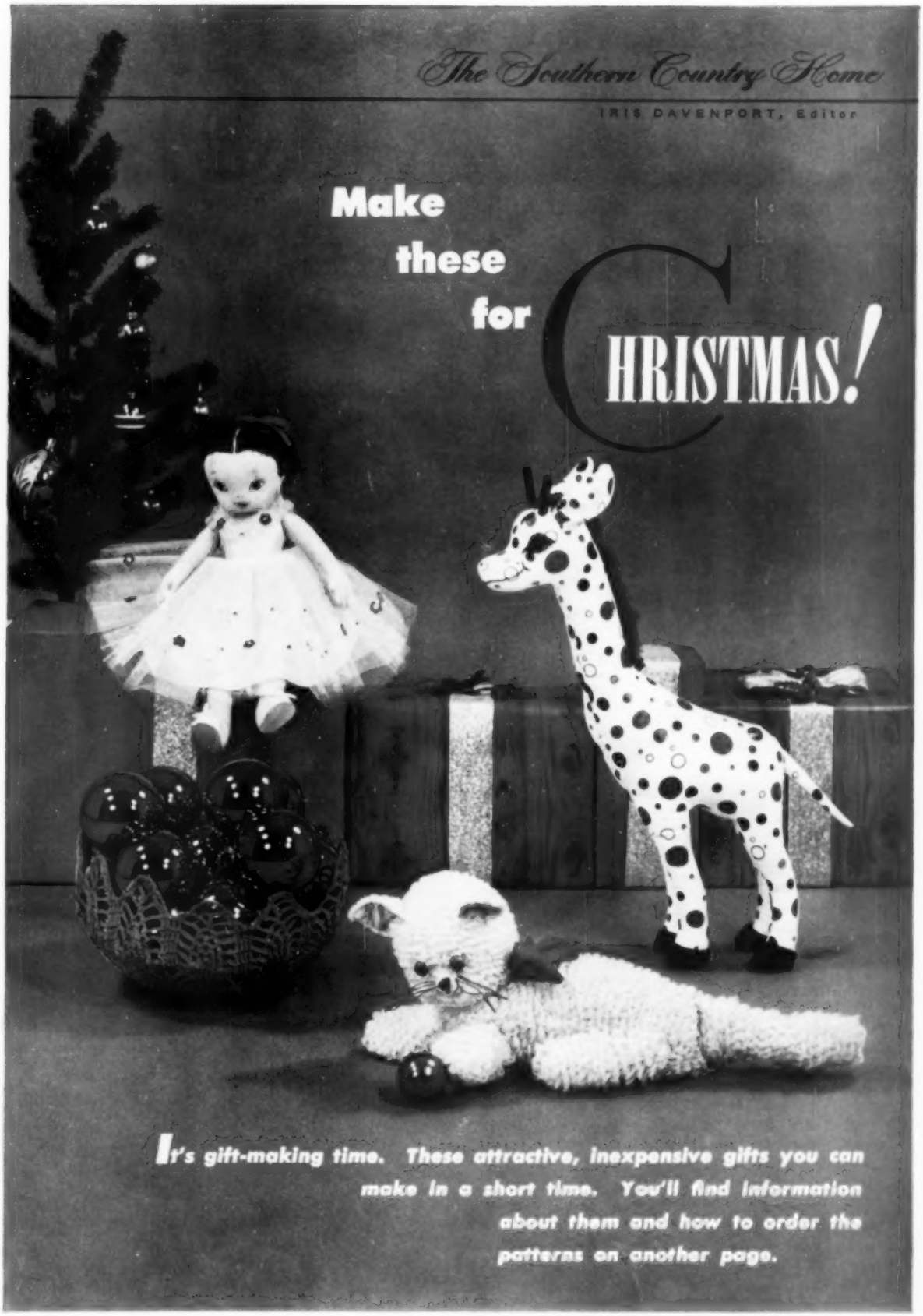
Hotpoint Co. (A Division of General Electric Company) Chicago 44

The Southern Country Home

IRIS DAVENPORT, Editor

Make these for CHRISTMAS!

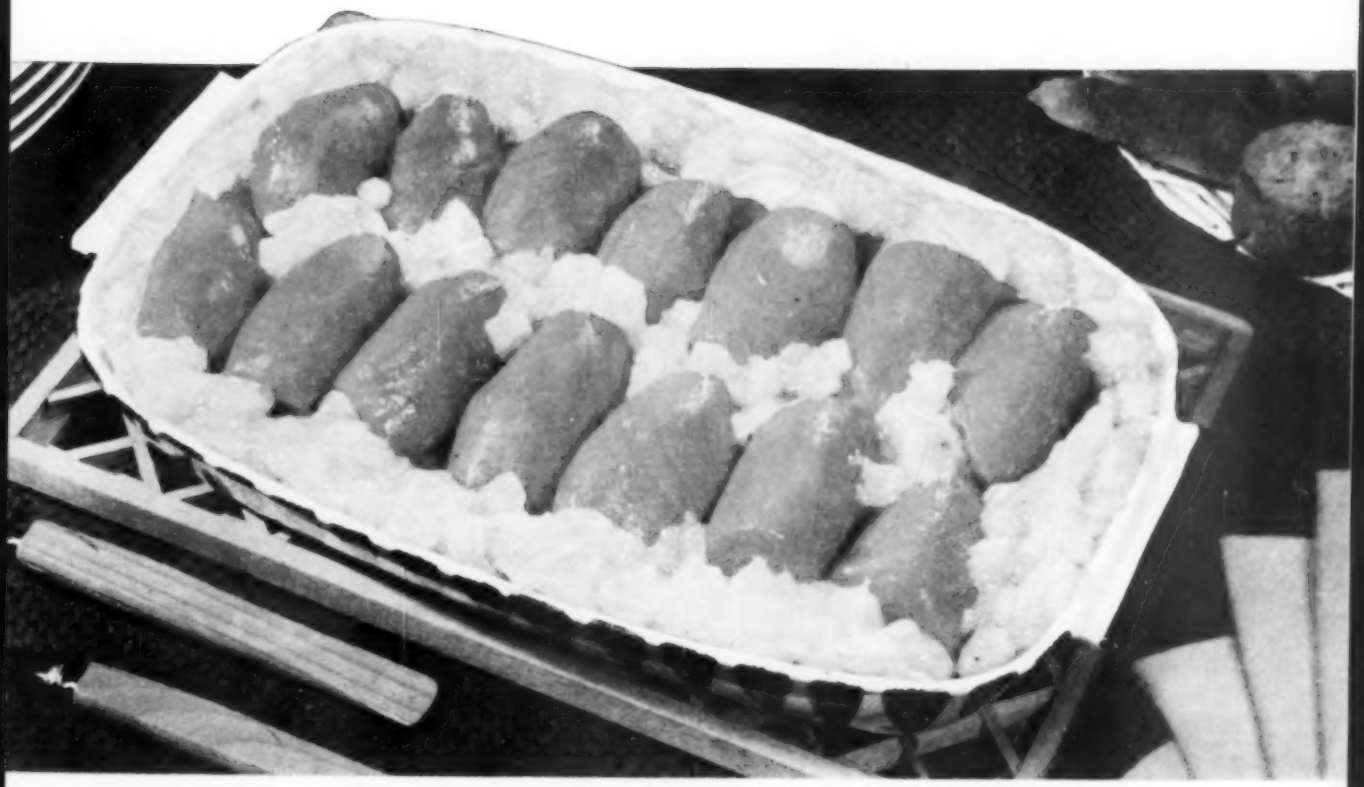


It's gift-making time. These attractive, inexpensive gifts you can make in a short time. You'll find information about them and how to order the patterns on another page.

Sparkling new label...

same heavenly **Snowdrift**

New as freshly fallen snow . . . *Snowdrift's handsome new can,* heaped full with the self-same, snowy-light *premium* shortening. When you see Snowdrift greeting you with its bright new face, remember—handsome is as handsome does. And Snowdrift has already produced the handsomest of results for millions of good cooks. For all-vegetable Snowdrift is the Wesson Oil shortening.



EASY FIXIN'S . . . with sweet potatoes

THE luscious, syrupy sweet, yam-type sweet potato with the reddish skin and heart of gold is the best, we think. . . . Use the kind you like best, but try these recipes which may be different from the usual sweet potato dishes you prepare. You and your family will like them and you will find them easy to fix.

Different indeed, but migh-tee delish is:

Cream of Yam Soup

- 2 cups strained or sieved boiled or canned yams
- 2 cups strained chicken broth
- 2 tablespoons butter or margarine
- ½ teaspoon salt
- 3 cups milk
- 3 drops of Angostura bitters (if desired)

Mix yams with chicken broth. Add butter or margarine, salt, milk and Angostura. Simmer over hot water or very low heat. Serves 6.

Sweet Potato Surprise

- 4 sweet potatoes—boiled and peeled or 1 large can sweet potatoes
- 2 oranges
- 2 tablespoons butter or margarine
- 1 tablespoon flour
- ½ cup brown sugar
- ⅓ cup water (if canned potatoes, use liquid in can)
- ¼ teaspoon salt

Slice sweet potatoes, slice oranges with peel on, very thin, remove seed from slices. Put a layer of potato slices in greased baking dish, then a layer of orange slices, and continue until all slices are arranged. Melt butter in sauce pan, add flour and mix well. Then add brown sugar, water and salt. Cook over low heat for about 3 minutes, then pour over potatoes and oranges. Bake in very moderate oven (325°F) for 45 minutes. Serves 6.

Meat Pie With Sweet Potato Crust

- 6 medium potatoes or 1 large can sweet potatoes
- 2 tablespoons non-fat dry milk
- ⅔ cup potato liquid
- ¼ teaspoon salt
- 2 tablespoons meat drippings
- 2 cups cubed leftover pork roast
- 2 tablespoons flour
- 2 cups boiling water
- ¼ teaspoon salt
- ⅛ teaspoon pepper
- ¼ teaspoon sugar
- ½ teaspoon (MSG)

If fresh potatoes are used, peel, cut into eighths, boil in enough salted water just to *(Continued on page 51)*

By IRIS DAVENPORT

New ways with PUMPKIN

WHEN it's "punkin" time you may have in mind pies for your family. . . . Surprise them and yourself by serving them pumpkin in other delicious ways—in biscuits, doughnuts, cake, cookies, ice cream and as a vegetable.

Canned pumpkin is ready for use. But one of those orange-golden globes brought in from the field must be prepared and cooked before it's ready for use.

Cut the pumpkin into pieces. Peel and cook the pieces in the least water possible. (A pressure sauce pan or cooker is excellent for this as for many other uses.) When tender, drain and put through a food mill, or sieve or mash well.

Pumpkin Souffle

- 2½ cups mashed pumpkin—canned or cooked
- ¼ cup melted butter or margarine
- ½ teaspoon salt
- 3 tablespoons brown sugar
- ½ cup hot milk
- 3 eggs, separated
- 1 teaspoon grated lemon rind
- ½ cup shredded coconut or raisins

Add butter, salt, sugar, milk and beaten egg yolks to mashed pumpkin. Beat until fluffy. Beat egg whites until stiff, fold in stiffly beaten whites, lemon rind, coconut to pumpkin mixture. Put into ungreased casserole and bake in moderate oven (350°) 1 hour or until lightly brown. Serves 6-8.

Pumpkin Casserole

- 2 cups mashed pumpkin—canned or cooked
- 4 eggs beaten
- 1 cup cream
- 2 tablespoons melted butter or margarine
- 1 teaspoon salt
- ⅓ cup well buttered bread crumbs
- Few almonds—blanched and slivered, if desired

Combine all ingredients, turn into buttered casserole. Top with well buttered crumbs combined with slivered almonds. Bake in moderately slow oven (325°) about an hour until lightly browned and puffy.

Pumpkin Doughnuts

- 1 egg
- ½ cup flour
- 1½ teaspoons baking powder
- 2 tablespoons white sugar
- 2 tablespoons brown sugar
- ½ teaspoon salt
- ⅛ teaspoon nutmeg
- 1 cup cold mashed pumpkin—cooked or canned

Beat egg until very light. Sift all dry ingredients together. Add sifted ingredients and pumpkin to egg. Mix well. Roll out lightly. Cut with doughnut cutter, fry in deep fat. Drain on paper towel or brown paper. Sprinkle with powdered sugar.

Pumpkin Biscuits

- 2 cups sifted flour
- 3 teaspoons baking powder
- 1 tablespoon sugar
- ½ teaspoon salt
- 6 tablespoons shortening
- ⅓ cup milk
- ½ cup mashed pumpkin—canned or cooked

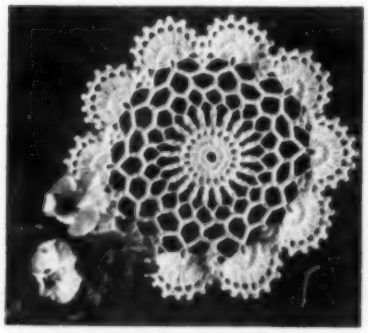
Sift dry ingredients together. Cut in shortening. Mix milk and pumpkin together. Add to flour mixture. Stir until all flour is dampened. (It may be necessary to add 1 or 2 tablespoons more of milk.) Turn onto lightly floured board, roll to ½ inch thickness. Cut with biscuit cutter. Place biscuits on baking sheet. Bake 10-12 minutes in hot oven (450°) until browned. Makes 12 two-inch biscuits.

Toasted Pumpkin Seeds

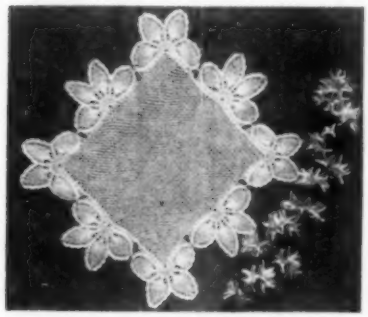
Separate fiber from unwashed pumpkin seeds. To two cups of seed, add 1½ tablespoons melted butter, 1¼ teaspoons salt. Mix well. Spread on greased shallow pan. Bake in slow oven (250°) until crisp and brown.

New to Crochet

P.C. 8918. In a spare afternoon or evening you can make this smart, saucy hat. The stitches are easy ones—single and double crochet. The trim can be the same color as the hat.



P.C. 9049. You begin with a circle of double crochet to make this attractive doily. Loops, single crochet, and clusters are used. Bands of double crochet and picot loops finish the edge.



P.C. 8804. Isn't this a lacy, lovely, different piece? Rare, indeed, is a square piece. The border is made up of pineapple or butterfly motifs.

Order these new crochet patterns by sending 5 cents for each one to Woman's Department, Farm and Ranch, Nashville, Tennessee. Be sure to give number of pattern and include your name, address, and money.

YOU CAN'T GROW COFFEE ON YOUR FARM!

YOU HAVE TO PAY CASH FOR THE COFFEE YOU DRINK!

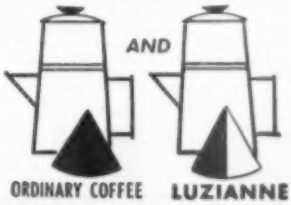
SO CUT YOUR CASH OUTLAY FOR COFFEE!!

LUZIANNE

CUTS YOUR COFFEE BILL IN HALF...

MAKE THIS TEST:

Make a pot of coffee with the brand you are now using. Then make a pot of coffee with Luzianne—using only half as much Luzianne as you use of your present brand of coffee. Experience will teach you that Luzianne's sprinkling of chicory does two things: it improves the flavor of coffee and makes it go twice as far.



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BC

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4569. Favorite shirtwaist styling—smart any season of the year! Misses' sizes 12-20. Size 16 printed pattern takes 4¾ yards 39-inch fabric.

9280. Most flattering princess lines—perfectly proportioned for the half-sizer in sizes 14½-24½. Size 16½ takes 4¼ yards of 39-inch fabric.

4731. Only one yard 35-inch fabric is needed for this pretty apron. Misses' sizes small (10, 12); medium (14, 16). Printed pattern takes one yard 35-inch fabric.

9238. Easy to sew—your favorite shirtwaist style! Misses' sizes 12-20, 30-42. Size 16 takes 4⅜ yards 35-inch fabric.

9022. Curving yoke and pockets to enhance a feminine figure! Misses' sizes 12-20, 30-42. Size 16 takes 3¾ yards of 39-inch fabric.

Send thirty-five cents (in coins) for each pattern to: Farm and Ranch, Pattern Department, P. O. Box 112, Old Chelsea Station, New York 11, New York.

Sweet Potatoes

(Continued from page 47)

cover. When done, drain and save liquid. If canned potatoes are used, drain and save liquid. Mash potatoes. Add dry milk powder to potato liquid and mix well. Add enough milk to potatoes to moisten. Add salt. Beat until light and fluffy. Melt drippings. Add cubed roast to hot fat. Sprinkle with flour. Stir until well mixed. Add seasonings and boiling water, and cook slowly until gravy thickens slightly. Pour into greased baking dish. Drop mashed potatoes by spoonfuls over top of meat mixture. Bake in moderate oven (350°F) until brown, about 20 minutes. Serves 6.

Sweet Potato Salad

- 3 medium sweet potatoes or 1 can sweet potatoes
- 1 cup diced celery
- 1 apple, cubed
- ½ teaspoon grated onion
- ¼ cup French dressing
- 1 tablespoon honey or light corn syrup
- 1 tablespoon lemon juice

Peel, and boil potatoes. Drain potatoes, boiled or canned. Chill and then cube. Add celery, apple and onion. Mix French dressing with honey, or syrup, and lemon juice. Pour over salad mixture. Mix carefully. Let stand at least an hour in refrigerator.

Sweet Potato Pie

- 1 unbaked pie shell in pan
- 1⅓ cups scalded milk
- 12 ginger snaps
- ⅓ cup brown sugar, firmly packed
- ¼ teaspoon salt
- 1½ cups mashed sweet potatoes (Canned or boiled)
- 2 egg whites
- ¼ cup molasses or corn syrup

Pour milk over ginger snaps, let stand until soft. Add sugar, salt and mashed potatoes. Mix well and pour into pie shell. Bake in very hot oven (450°F) for 30 minutes. Beat egg whites until stiff, gradually add molasses, continue beating until stiff. Spread over pie and return to slow oven (325°F), bake for 20 minutes.

Minted Yam and Pineapple Bake

(Pictured on page 47)

- 1 No. 2 can crushed pineapple
- 1 tablespoon cornstarch
- 3 tablespoons butter or margarine
- Mint extract
- Green food coloring, if desired
- 6-8 medium-sized yams, canned or cooked and peeled

Drain ¼ cup pineapple sirup from pineapple; heat remaining pineapple and sirup to boiling point. Combine ¼ cup pineapple sirup with cornstarch and mix well; add to hot pineapple and cook over low heat, stirring constantly, until thickened. Add butter or margarine and mint extract to taste. Cut yams in half, place in greased shallow casserole. Pour mint-pineapple mixture around yams. Cover and bake in slow oven (325°) 25 to 30 minutes.

Her young sister enjoys her special dishes

Texas Teen-ager Wins Two Cooking Awards

Diane Akin lets sister Melinda hold the cooking awards she won last year, while she, herself, shows off the prizes she won other years. Thirteen-year-old Diane has been winning cooking contests for three years now—she took her latest awards at the Four-States Fair.

Like most teen-agers, Diane loves dancing, parties and sports. However, Diane finds time for cooking because she loves that, too. And she uses Fleischmann's Active Dry Yeast. "It's fast and easy," she says. "And stays fresh right in the cupboard."

Prize-winning cooks are enthusiastic about Fleischmann's Active Dry Yeast *and* the new "Yeast-Riz" Main Dishes—(there's a recipe on the back of every "Thrifty Three"). *You'll* like Fleischmann's, too—it keeps for months, always ready to use. And it's fast rising and easy to use. When you bake at home, use Fleischmann's Active Dry Yeast.

Get the New "Thrifty Three"

Another Fine Product of Standard Brands Inc.

You Can Win this Luxurious Comforter

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Sell just $8 in subscriptions to FARM AND RANCH and this Comforter is Yours!

This beautiful 100% wool comforter, covered in lustrous satin, adds a distinctive note to any bedroom in any home. Moth treated.

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What to do during the
MOST
IMPORTANT HOUR
of his cold...

Give him the one first day relief proved by 41 million mothers

Mother, how satisfying it is to know you can give your child safe, sure relief from suffering in the most important hour of his cold! The hour you first discover he feels a cold coming on.

Everything you do for him then, at that critical hour is especially important. That's the hour to use dependable Vicks VapoRub®. Rub it on his chest, throat and back and see that he rests. By relieving his suffering at the very beginning you can help him throw off the cold.

Eases Your Mind As Well As His Suffering

Anxiety and worry will leave when you see how your child relaxes as VapoRub brings its warming comfort. It works so fast, two ways at once:

• Works on the chest to loosen muscular tightness.

• Works in the nose, throat and large bronchial tubes with medicated vapors that relieve congestion, ease coughing, make breathing easier.

Another treatment with VapoRub at bedtime will add to his comfort, bring relief hour after hour, while he sleeps peacefully. Often, by morning, the worst suffering of his cold is over.

Nothing works like VapoRub to bring comforting first-day relief from suffering.

Works wonderfully in steam, too. For croupy coughs or heavy chest colds.

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FREE BOOKLET

GETTING UP NIGHTS

Makes Many Feel Old Before Their Time

There is nothing that can make you feel older and more depressed than losing sleep and worrying about "Bladder Weakness" (Getting Up Nights or Bed Wetting, too frequent, burning and itching urination) or Strong, Cloudy Urine, due to common Kidney or Bladder Irritations, which sometimes result in Backache, miserable referred, secondary aches, pains, headache and nervousness. In such cases New Improved CYSTEX usually gives quick, wonderful, soothing relief by combating germs in acid urine, and by analgesic pain relief. Over a billion CYSTEX tablets used prove safety for young and old. Get CYSTEX from druggist today under money-back guarantee. See how fast you improve.

FASTEST KNOWN SKIN RELIEF!

Many doctors report results in 1 to 3 days with *new* Cuticura method

Want *faster* relief from pimples, rashes, other externally caused skin irritations? Wash skin thoroughly twice daily with superfatted, mildly medicated CUTICURA SOAP. Apply CUTICURA MEDICATED LIQUID frequently. You'll get *instant* relief from discomfort—*faster* healing aid—with this sensational new greaseless, fast-drying, "invisible" antiseptic. Buy at druggists. Soap, only 25¢. Liquid, 60¢, or send 10¢ to cover mailing costs for generous sample of both. CUTICURA, Dept. EK, Malden 48, Mass.

Playtime

IT'S PLAYTIME . . . and time to give thanks, as the Pilgrims once did, for our many blessings. Happy Thanksgiving Day to all you playmates!

THANKSGIVING PRAYER

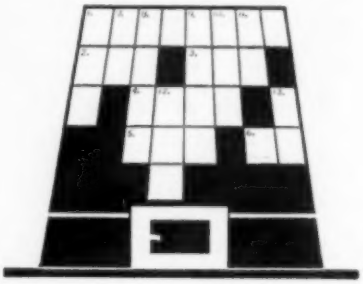
We thank Thee, Lord, for all good things
That you have sent our way;
For blessings rich and plentiful
At home and school and play.

—Karen Kennedy (Age 7)
Dallas, Texas

THANKSGIVING POEM

We're thankful for our house on the farm,
For kindly neighbors who do no harm;
We have out here all things that we need,
We love each other—oh, yes, indeed!
Prayers and music, talks and such . . .
We thank Thee, God, that we have so much.

—Eva Rahn (Age 10)
Clyo, Georgia



PILGRIM'S HAT

ACROSS:
1. First to have a Thanksgiving Day
2. Girl's name
3. Ginger -- -- --
4. Boy's name
5. Boy's name
6. Not "yes"

DOWN:
1. Cooking utensil
7. Not out
8. Farmers till it
9. It falls from the sky
10. Sick
11. Same as "I"
12. To dine
13. I go -- -- school

—Lena Ann Jackson (Age 11)
Beardstown, Tenn.

LINDA'S LETTER

Dear Lauragene: I live in a house owned by the U. S. Forest Service. My Daddy is the dispatcher at the Forest tower. The tower he works on is 110 feet high and has 231 steps. I have counted them. The Forest Service has named our place the "Four Notch Lookout Station."

—Linda Lois Chatham (Age 11)
Huntsville, Texas

FILL IN THE BLANKS

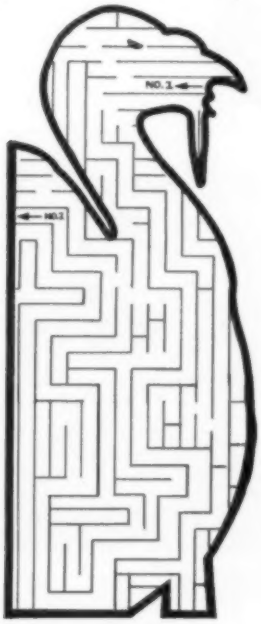
Below are the names of some baby animals. Write the name of the mother in the blank by each baby's name.

Cub	Duckling .....
Calf	Colt .....
Gosling	Kitten .....
Lamb	Fledgling .....
Fawn	Chick .....

(Answers: bear, cow, tomcat, ewe, doe, duck, mare, cat, hen, hen.)

DON'T CROSS ANY LINES!

Tom Turkey has just gobbled up some corn. Starting at arrow No. 1, see if you can trace the corn through to arrow No. 2.



MAKE A HAND PUPPET!

You'll need the head of an old rubber animal or doll which has at least a one-inch neck, and a long-sleeved doll gown or robe. Sew the gown to the neck of the toy. Put it over your hand and insert your last two fingers into one sleeve, and your first two fingers into the head, and your thumb into the other sleeve. Now you can make the arms and head move as you wish and you can have a puppet show these winter evenings!

Playmates! Vote today! Which do you like best . . . our games, poems, puzzles, things-to-do, or crossword puzzles? Write me a card and say, "I like ..... best!" Mail it to PLAYTIME, 833 Exposition Ave., Dallas, Texas.

Your editor, Lauragene Parker

More Mothers Depend on Fletcher's Castoria Than Any Other Laxative

To Correct Constipation in Children of All Ages

NEVER GIVE YOUR CHILD AN ADULT LAXATIVE

Yesterday—listless, irritable, no appetite, caused by temporary constipation.

Today—every living minute on the go!—thanks to gentle, *natural-like* relief provided by Fletcher's Castoria. Contains no harsh drugs, won't cause griping or diarrhea as adult laxatives may do. Since Fletcher's Castoria is liquid, exact dosage is easy.

More Mothers depend on good-tasting Fletcher's Castoria than any other laxative. Why don't you?

Chas. H. Fletcher
The Original and Genuine

CASTORIA

Only nationally-recognized laxative made especially for babies and children

HOT WATER . . FAST

Only **$5.95** With

Flashcat
"America's Favorite"
Electric Immersion
Water Heater

No more lifting heavy loads of water from hot stove to washtub, sink, barn or chicken house. Just plug 7-foot cord into any light or wall socket. Carry it anywhere. Weighs only 1 lb. 2 oz. (110 volt AC or DC). Bright nickel chrome finish. One-year guarantee. Ideal for housewife, farmer, doctor or nurses—saves work and time. Over one million in use. Get one for the house and one for the barn—at your Hardware or Electrical dealer today—only $5.95. If your dealer is temporarily out, write us.

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TENSE NERVOUS HEADACHES

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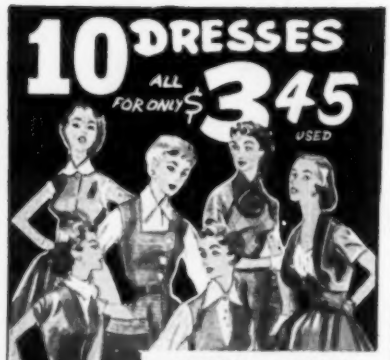
STRONGER Yet SAFER

ANACIN

Won't Upset The Stomach

Anacin® not only gives *stronger, faster* relief from pain of headache, but is also *safer*. Won't upset the stomach and has no bad effects. You see, Anacin is like a doctor's prescription. That is, Anacin contains not just one but a *combination* of medically proven, active ingredients. Scientific research has proved *no single drug* can give such strong yet such safe relief as Anacin. *Buy Anacin Tablets today!*



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Good condition, ready to wear. Price includes all 10 dresses!

FREE GIFT WITH EVERY ORDER!
Send $1 deposit now! Pay postman balance plus C.O.D. and postage. No order accepted without $1 deposit

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15 HESTER ST., DEPT. FR-9, NEW YORK 2, N. Y.
RUSH 10 DRESSES and FREE GIFT for promptness. $1 deposit enclosed. I pay postman balance plus C.O.D. and postage.
Children's Dresses, 1-6X, 10 for $3.45
Children's Dresses, 7-14, 10 for $3.95
Ladies Dresses, 9-15, 12-20, 38-44, 14½-24½, 10 for $3.75
Extra Large Sizes, 10 for $4.25
NAME _____
ADDRESS _____
AGE _____ CITY _____ STATE _____
Ladies Size _____ Children's Size _____

FALSE TEETH
KLUTCH holds them tighter
KLUTCH forms a comfort cushion; holds dental plates so much firmer and snugger that one can eat and talk with greater comfort and security; in many cases almost **as well as with natural teeth.** Klutch lessens the constant fear of a dropping, rocking, chafing plate. 35c and 60c at druggists . . . If your druggist hasn't it, **don't waste money on substitutes,** but send us 10c and we will mail you a generous trial box.
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TWO LOVELY RINGS
Beautiful **Engagement** and **Wedding** ring to match in 1/40 10-K R.G.P., set with sparkling brilliants. **Yours** for selling $2.00 worth of famed Rosebud Products. **Order** 8 Rosebud Salve or 8 Tholene Camphor Ointment to sell at 25¢ a box *Or* 4 Rosebud Perfume to sell at 50¢ a bottle. Order 4 Rosebud, 4 Tholene or 2 Perfume for 1 ring.
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Easy to use Viscose Applications may heal many old leg sores due to venous congestion of varicose veins, leg swelling or injuries. Send today for a FREE BOOK and NO-COST-FOR-THE-TRIAL-plan.
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HUNDREDS OF DOLLARS PAID... each month by advertisers for boys & girls pictures (6 mo. to 18 yrs.) for TV, Calendar & Magazine ads. Your child has same opportunity. Send ONE (1) small photo for approval. Print childs and mothers name and address on back. Returned in 20 days with report. NO OBLIGATION
Hollywood Spotlite, Dept. NK
1011 North La Brea Ave. Hollywood, Calif.

Trace the patterns on wood, saw out the parts, put them together and paint—that's all you have to do to make these delightful gifts for Christmas.

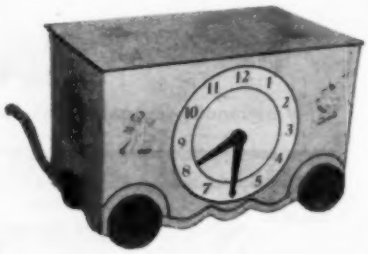
Saw-outs for Christmas

Rocking horse—Pattern No. 131—**$1**

Child's desk—Pattern No. 74—**50c**

Toy chest—Pattern No. 137—**75c**

Clothes rack—Pattern No. 113—**50c**

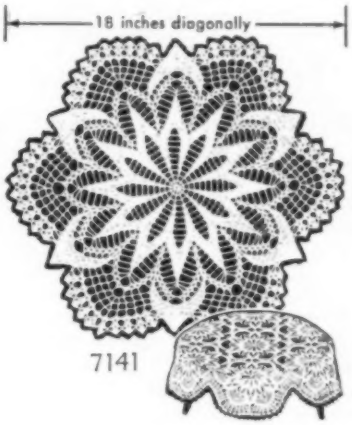


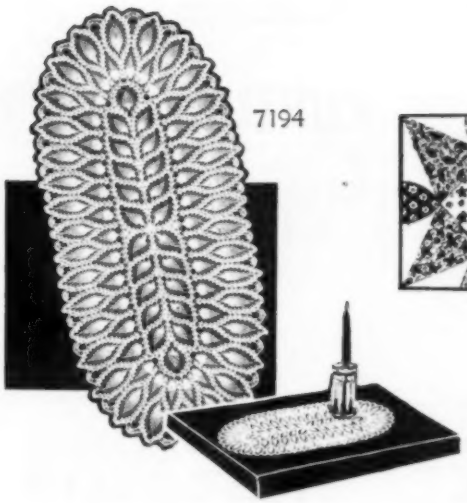
Order by pattern number from Building Editor, Farm and Ranch, 318 Murfreesboro Road, Nashville, Tenn.

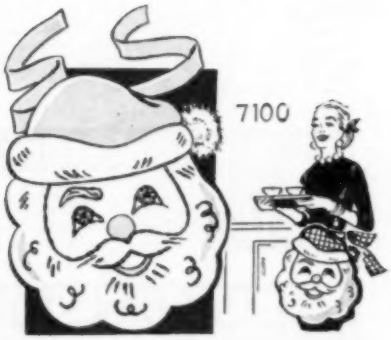
7059. She's a big 44-inch doll — and she DANCES—see the elastic straps attached to her partner's feet! Make this wonderful Christmas gift! Transfer of doll, cutting chart for dress.

7141. Lovely decoration for tables, chairs, buffets! Easy-crochet this smart hexagon-shape design! Crocheted hexagon, 18-inches diagonally, No. 30 mercerized cotton; smaller in No. 50; larger in bedspread cotton. 7 for 50-inch cloth, No. 30 cotton.

7194. Only 2 balls of No. 30 cotton for this popular pineapple design scarf in 28-in. length! Make matching scarfs and mats for a luncheon set! Crochet directions for any size scarf.







7314. This quilt "Mardi Gras" offers endless opportunity for lovely, color arrangements! Use scraps of many fabrics. Just four patches! Charts, directions, pattern for 4-patch quilt. Yardages for single, double-bed size.

7100. Special greetings for Christmas company with this cheery "Santa" face apron! Apron, 16 inches long. Directions, embroidery and applique transfers included.

Send twenty-five cents (in coins) for each pattern to: Farm and Ranch, Needlecraft Department, P. O. Box 112, Old Chelsea Station, New York 11, New York. Send an additional 25c for Needlecraft Catalog.

EX-LAX HELPS you toward **YOUR NORMAL REGULARITY** *...gently...overnight!*

AT NIGHT . . . take EX-LAX and don't let constipation be a problem. Sleep undisturbed.

NEXT MORNING, you enjoy the closest thing to natural action. No upset. No discomfort.

SCIENTIFIC RESEARCH PROVES THAT:
1 – Unlike some laxatives, EX-LAX acts in the large intestine, not the stomach. Does not rob vital nutrition. **2** – EX-LAX continues to help you – seldom, if ever, is it needed next night.

ENJOY the closest thing to natural action – *overnight* . . . get EX-LAX.

15¢, 35¢, and 75¢ economy family size

EX-LAX
THE CHOCOLATED LAXATIVE
COMMENDED BY PARENTS' MAGAZINE
MORE FAMILIES USE EX-LAX THAN ANY OTHER LAXATIVE

MAGNIFYING GLASSES
FOR FOLKS OVER 40

NOW,—magnifying lenses for elderly folks who don't wear glasses regularly, who do not have astigmatism or diseases of the eye, and who have difficulty reading newspapers, the Bible and doing fancy work. It's no longer necessary to struggle and squint with an old-fashioned magnifying glass which has only one lens, because Precision Magnifying glasses bring you a magnifying lens for each eye and help stop eyestrain and discomfort. Permit restful reading hour after hour like you never did before. Try them at home on a five day trial plan that leaves no room for doubt.

PRECISION MAGNIFYING GLASSES
A Blessing for Elderly Folks

Lenses are scientifically (not Rx) ground and polished, then fitted into a frame of simulated zylonite. Truly they add to your looks, and, for reading purposes they're wonderful. Complete satisfaction guaranteed. Best order a pair today.

SEND NO MONEY

Just mail name, address and age. On arrival pay postman only $4.00 plus C.O.D. postage. Wear them 5 days, then, if you aren't more than satisfied return for refund of purchase price. If you remit with your order, we ship prepaid, same guarantee. Order from:

PRECISION OPTICAL, INC.
Dept. 174-P Rochelle, Ill.

20 LARGE NEW TOWELS 5¢ EA

Incredible, but true! 20 large-size, new towels in colors and white — for only 5¢ each! Minimum order 20 for $1.00. (Pls. include 15¢ extra for postage and handling, or $1.15 in all for 20 Towels). Others charge $1.00 for only FIVE unwoven cotton and rayon towels like these but we made a terrific purchase and are passing savings on to you. Limit — 2 orders per customer. Money-back guarantee. Order TODAY! Make wonderful gifts.
NICKEL TOWELS, Dept. 855, Box 991, St. Louis, Mo.

Quick Relief of

PAIN

Ease PAINS of HEADACHE, NEURALGIA, NEURITIS with STANBACK TABLETS or POWDERS. STANBACK is not a one ingredient formula . . . STANBACK combines several medically proven pain relievers into one easy to take dose. . . . The added effectiveness of these MULTIPLE ingredients brings faster, more complete relief, easing anxiety and tension usually accompanying pain . . .

Test STANBACK Against Any Preparation You've Ever Used

Snap Back with

Guaranteed by Good Housekeeping

NEW! GUARANTEED
MEDICAL RELIEF
FOR PAINFUL, INFLAMED

HEMORRHOIDS

OR YOUR MONEY BACK!

Read this gilt-edged guarantee: Regardless of the remedies you've tried, *new* UNGUENTINE Hemorrhoidal Suppositories promise you this: If you've ever bought a hemorrhoid remedy—*anywhere*, at *any* price that brought you:

1. **Faster pain relief**
2. **Quicker reduction of swelling**
3. **More soothing coating of your entire irritated area**

. . . return your purchase to the druggist and every last penny will be refunded!

No messy tubes, nozzles. In seconds, UNGUENTINE Suppositories release medication to help kill pain, shrink hemorrhoids, bring comfortable elimination! *A Norwich Product.*

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SUPPOSITORIES

Don't Let

CHANGE OF LIFE CHANGE YOU

If you are going through change of life, the loving and loved woman you are today can be a nerve-tortured, impossible-to-live-with person tomorrow. Yet thousands of women who suffered hot flashes and screaming nerve tensions have found the way to enjoy life and peace of mind . . . thanks to the most famous prescription any doctor ever wrote for women like you . . . as Mrs. A. B. Kesner of Chatauqua, Kansas discovered:

"I was so miserable with hot flashes and nerves. Now, since taking Dr. Pierce's Favorite Prescription regularly, I feel like a new person."

So why suffer? For a regular bottle of Dr. Pierce's Favorite Prescription, mailed free, send your name and address to Pierce's, 121 Kehr St., Buffalo 11, N. Y. Time limited.

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Get fast relief from the distress of bronchial asthma and hay fever with soothing smoke of Blosser's Cigarettes or Powders. Allays wheezing, sneezing, choking spells—promotes freer breathing. Sold on money-back guarantee. 50c, $1.75 sizes at your druggist's. Blosser Co., Atlanta 9, Ga.

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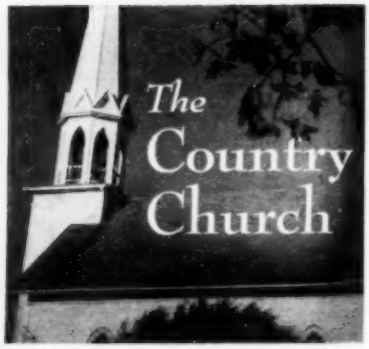
CIGARETTES · POWDER



By Thomas N. Carruthers, D.D.

The Drudge

FEW persons do more harm to Christianity than the drudge. This is the name which Dr. Hubbard in his book on the Parables of Jesus applies to the elder brother in the Parable of the Prodigal Son. He was a drudge. He did his duty but he did it with his eyes on the clock and his thoughts on the pay envelope. "These many years," he said to his father, "do I serve thee." Weymouth puts it in his translation thus: "All these years I have been slaving for you and you never gave me a kid that I might make merry with my friends."

Drudgery is not a menial task; it is the spirit in which the task is done. One man makes drudgery out of the singing of an anthem; another makes poetry out of the scrubbing of a floor. To do your work in the spirit of joyless slavery is drudgery, however sublime the task at which you toil.

The Church contains too many drudges. They go about their Christian tasks like the "quarry slave, scourged to his dungeon." They accept these tasks but they accept them as burdens to be borne. They carry their religion around on their backs.

The very worst thing that one can do to the Church is to give forth the impression that it is a burden. The person who attacks the Church hardly does as much damage as the member of the Church who is always complaining about church responsibilities and obligations, giving the outsider the impression that the Church is a dull affair which people support only from a sense of duty.

If our religion is to attract others it must rise to the plane of privilege. It must be enthusiastic. Rufus Jones once asked Baron von Hugel about the qualities of a saint. Baron von Hugel replied that saints are loyal to their faith, heroic, recipients of powers beyond ordinary capacities and radiant. Certainly radiance is required of a Christian who is to be an effective witness for Christ.

KILL RATS QUICKER!

The first nibble of STEARNS' kills in minutes or hours (not days or weeks). Contains HM-75, irresistible rat lure. Doomed rats seek air, water, and die outside. Used by gov't agencies. Also kills mice, roaches, burrowing animals. **AT DEALERS, ONLY 49¢**

STEARNS' ELECTRIC PASTE

UNCORK 25 FEET OF STOMACH TUBES

Tomorrow Feel Frisky as a Kitten!

Amazing Laxative-Stomach Sweetener Now in Pleasant TABLETS too!

Feel half-alive, headachy, suffer gassy upset, when stomach is soured by constipation? Black-Draught* relieves constipation while you sleep! Helps sweeten sour stomach, at same time! No harsh griping. Made from pure vegetable herbs. Brings comforting relief overnight. Then life looks sunny again! Get Black-Draught from dealers today.

**In Powder or Granulated form . . . and now in new, easy-to-take Tablets, too!*

FOR CHILDREN When constipation sours children's digestion and disposition, get Syrup of Black-Draught. Youngsters love this sweet liquid.

RUPTURE-EASER

(A Piper Brace Truss) ®

Double... 5.95

Right or left Side **$4.95**

No Fitting Required

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A strong, form-fitting washable support for reducible inguinal hernia. Back lacing adjustable. Snaps up in front. Adjustable leg strap. Soft, flat groin pad. No steel or leather bands. Unexcelled for comfort. Also used as after operation support. **For men, women, children. Mail orders give measure around the lowest part of the abdomen and state right, left side or double.** We Prepay Postage except C.O.D.'s.

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Do false teeth drop, slip or wobble when you talk, eat, laugh or sneeze? Don't be annoyed and embarrassed by such handicaps. FASTEETH, an alkaline (non-acid) powder to sprinkle on your plates, keeps false teeth more firmly set. Gives confident feeling of security and added comfort. No gummy, gooey, pasty taste or feeling. Get FASTEETH today at any drug counter.

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MARBLE $17.95

Genuine Marble and Granite Memorials of lasting beauty. Overall size, height 30 in., width 18 in., thickness 6 in. Freight paid. Satisfaction guaranteed. Free catalog.

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Make these for . . .

CHRISTMAS

781. A graceful little ballerina doll to dance straight into the heart of any little girl. She's 15 inches tall, has straw-yarn hair, wears dainty net skirt. Clothes pattern and doll transfer are included. (See patterns in color on page 45.)

781

7243. Crochet a luxurious centerpiece — pineapple design forms this pretty bowl, 10 x 6 inches in size. Instructions for a graceful pedestal included. Use heavy 4-ply jiffy cotton.

7243

7093

7012

7039

7093. Purr-fect gift to thrill a youngster at Christmas! Crochet a Cuddle Kitten in loop-stitch. 16 inches long, including tail. Complete and simple directions.

7012. The tall Giraffe makes a cuddle toy to delight any child. Use him as a handy jewel rack too. Directions for 21-inch giraffe, embroidery transfer of face.

7039. Two pretty hostess aprons with a smart new trim of embroidery. Just one yard of 35-inch fabric for each. Pattern, embroidery transfer, directions for two styles. Make them for gifts.

Send twenty-five cents (in coins) for each pattern to: Farm and Ranch, Needlecraft Department, P. O. Box 112, Old Chelsea Station, New York 11, New York. Send an additional 25c for Needlecraft Catalogue.

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Breathe Again!

When a cold stuffs up your head and it's hard to breathe, just put a few drops of Vicks Va-tro-nol up each nostril as directed. Instantly, you feel a refreshing tingle. The swelling goes down, the irritation is soothed, your nose opens. You breathe again! Wonderful relief, too, for sneezes and dry, itching nose.

VICKS VA-TRO-NOL
NOSE DROPS

NOW—for children... a new, different aqueous nose drop that *clings* to give longer relief. Milder-*feeling*. Fully effective.

New MILD VICKS VA-TRO-NOL Nose Drops

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WEAR THEM ON 10-DAY TRIAL

FREE Included free—special chemical cloth to clean glasses quick.

Read small print by wearing these Precision Eye Glasses! Wear like ordinary spectacles. ***They give you a magnifying glass for both eyes at the same time.*** Get new pleasure out of reading newspapers, magazines, Bible, or doing fine needlework. Read telephone books with ease. Throw away that clumsy magnifying glass. Not for prescription or corrective purposes but designed to make small print look bigger.

***NOW!* PRECISION GROUND GLASSES ONLY $3.98**

Precision Eye Glasses are especially made for folks over 40 who don't wear spectacles regularly for reading, but can't read small print without squinting or using a magnifier. Expertly ground and polished lenses mounted in sturdy frame of brown simulated zynolite; fit all heads. Handsome as costly spectacles.

SEND NO MONEY!

Send name, age and sex today. We'll send you a pair of Precision Eye Glasses C.O.D. for $3.98 plus postage charges. Wear 10 days. If not delighted, return glasses for immediate refund of purchase price. If you send $3.98 with order, you save postage and C.O.D. charges. Same money-back guarantee. Start enjoying your reading—order your pair TODAY.

BIG PROFITS FOR YOU!... Sell Precision Eye Glasses to friends, fellow-workers and neighbors. Ask for Money-Making Plan.

ZEVEX OPTICAL CO., 5726 BROADWAY
DEPT. S-304 - - CHICAGO 40, ILLINOIS

MAILBOX MARKET

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Cash with order. No advertisement less than ten words accepted. Count each initial and whole number as one word. Orders, cancellations, or changes in copy must reach Nashville office 20th of second month preceding month of issue, in other words, the closing date for our December issue is the 20th of October.

Classified Display

(Bold Type and Illustrations)

Classifications eligible: Pets, Farm Machinery, Livestock, Nursery Stock, Seeds and Plants, Photo Finishing, Poultry. Display classified advertising confined to column width except Livestock, Poultry, Nursery Stock, which may be 2 columns wide. Cash with order except from recognized advertising agencies.

RATES BY EDITIONS

Editions	Per Word	Display Classified Per Inch	Guaranteed Circulation
Both Editions	$0.80	$105.00	1,290,000
Southeastern	0.52	66.05	785,600
Southwestern	0.33	46.45	504,400

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EASY TO OWN. . . . 310 acre Ozark stock farm with good water supply. On all-weather road, mail and school bus route, less than 2 miles highway and fishing stream, 7 village. Fair 4-room electric-lighted home, 2 porches, small barn, shop, crib with shed, unfinished 2-room house, 310 acres, 85 has been tilled, 270 now in open and wooded pasture, 2 springs, 2 creeks, home fruit. Owner sacrifices at $4,500, only $1,250 down. New Winter bargain catalog, just off press, 17 states, sent free! United Farm Agency, 2825-FR Main St., Kansas City 41, Mo.

FLORIDA CITRUS GROVES, Ranches, Improved and Unimproved, Business Opportunities, Homes. Where it costs no premium to buy, build and live in Arcadia, where ten thousand people await to welcome you. Write for information. John Parker, Realtor, Box 187, Arcadia, Florida.

FLORIDA HOMES, Farms, Groves, Ranches, Business Opportunities. Write For List. H. L. Chambers, Wauchula, Florida.

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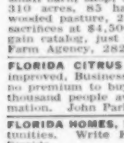
WELDERS 110 volts—1/8" metal $6.95, plus 50c postage. 1/4" metal $21.95 F.O.B. Complete ready to use. Essay Mfg. Co., Dept. G, Quincy 69, Mass.

TRUCK TIRES

RECONDITIONED — GUARANTEED



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TRACTORS: Garden 3HP $100.00. Four wheel riding midget size $279.00. Universal Mfg. Co., 324 West Tenth, Indianapolis 2, Indiana.

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RARE PHEASANTS, Peafowl, Waterfowl, Bantams. Walter Oakie, Ransom Road, Winston-Salem, North Carolina.

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DOGS

HUNTERS! Raccoon Mountain and Short Creek Kennels Now Combined. Large number of Coonhounds, Foxhounds, Rabbithounds, Beaglehounds, Bird-dogs, Puppies. Free literature and pictures. Trial. Dures Thomas, Owner, Box 464, Boaz, Alabama.

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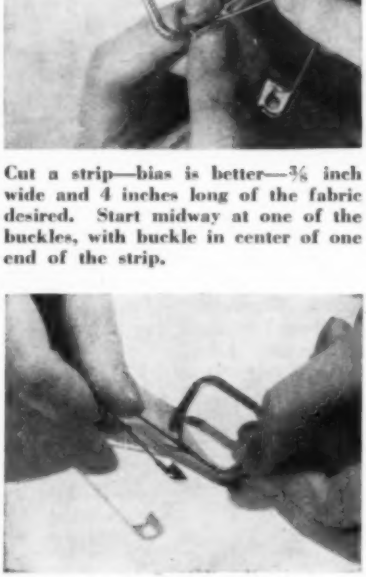

Using pin, push fabric between teeth of buckle; take care to catch each side evenly. Guide material around corners.

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Straight Talk

by Dan Anderson

"WELL, what are you going to be against this month?" one of my friendly critics (not all are friendly) asked the other day.

Well, this month I'm going to be against both political parties. (But not equally.) It sure gets tiresome: not having anyone to vote *for*.

This is a crucial period for Americans. In a few days we'll have to make a very important decision. Trouble is, we haven't got a fair choice.

Which Twin Has the Phony?

Judging by the platforms of the two parties there are few real issues. It's mainly a question of who can do the same things better. Neither party thinks enough of States' Rights to put it in its platform.

One important platform difference: The Democrats are committed to repeal the Taft-Hartley Act. If successful, we'd face the greatest era of labor racketeering, small-business failures and inflation in many years. Democrats would also try to pass a federal law making state right-to-work laws unconstitutional. That would be a devastating blow to the growth of industry, particularly Southern industry. That would kick the door open to a Labor-Socialist Party.

Both parties, according to the platforms, are for Socialism with moderation. Question: Can the present Democrat leadership *be* moderate? A Democrat party owned by the radicals can't really move in any direction except left. Like that baseball scout's report on the rookie shortstop said: "He has trouble going to his right."

Both parties have moved as close to the middle of the road as they dare—to pick up the independent vote. The Republicans, who *want* to move to the right, have moved to the left. The Democrats, who *want* to move to the left (How far, America, O, how far?) have moved to the right during the campaign.

There's no doubt that the Republicans would kinda' like to move toward States' Rights, balanced budget, reduced debt and taxes—*if* they could do it and get re-elected.

"Happy Pills" Won't Cure Ills

One of the best things about Mr. Eisenhower is Mr. Benson. I think Mr. Benson is one of the finest Americans of our generation. The President deserves great credit for not succumbing to the relentless pressure to fire Benson. Trouble is, most of his other cabinet members don't measure up to Benson, a true friend of the farmer, who is looking out for the nation *first*. We need *more* Secretaries who put the interests of all the people ahead of the particular group they represent.

The Democrats "happy pill" cure of the farm problem—high, rigid, and all-inclusive price supports (or some sort of Brannan Plan)—would doubtless entirely wreck what's left of a free market in agriculture. And it would also wreck what's left of farmers' individual freedom and would result in even huger unmarketable surpluses and foreign give-aways.

A vote for Kefauver-Stevenson will be a vote for AFL-CIO, ADA, Negroes and other racial groups, NAACP, Farmers Union, foreign-born, and the Socialists . . . every minority which thinks of itself first, America second. The South is in poor company. Another prominent supporter of Stevenson-Kefauver is Elvis Presley, whom somebody aptly described as Frank Clement set to music.

The two parties—if it can still be said that we have two parties—follow the same collectivist pattern. Both are committed to world boon-doggling (current foreign give-away figure $5 billion of your tax money every year.) Both packed the Supreme Court with unqualified politicians dedicated to left-wing "social gains." Both are guilty of uncontrolled spending and devouring taxation; both favor increased Federal Aid to schools and public housing. Both claim credit for inventing the New Deal. Both are for increased Social Security, old age benefits, minimum wage, United Nations, Soil Bank, (the argument is over whose idea it was and who could run it better) and "civil rights," including forced integration. Both like Earl Warren. Both oppose radically reducing or killing the federal income tax. Both oppose Senator McCarthy—and Khrushchev and Bulganin. Both blocked the Bricker Amendment and the natural gas bill. Both are against work. Nixon came out the other day in favor of a four-day week, competing against Walter Reuther's 30-hour week idea. Both candidates say, believe it or not, that Communists in government is not an issue.

Snakes Alive!

Once upon a time a man climbed into bed and found two snakes there: A dynamically conservative baby python and a liberal, for-the-small-man rattler. So he kicked the rattlesnake out and went to bed with the python. Better to be squeezed to death later than to die a violent, immediate poison death!

And then there was Little Red Riding Hood. She was a smart one! She wouldn't get in bed with anybody she didn't trust—and she knew that the "grandmother" giving her the old come-on was really a *wolf*. So she left her grandmother's house. Lots of us have also left the house of our grandmother—and we, too, are in the woods. But I think the election of Kefauver-Stevenson would be a near calamity for America. I don't see how any real Democrat—anybody who believes in history, honesty, the multiplication table and Thomas Jefferson—could be for Stevenson-Kefauver and the dangerous elements they represent.

Our voting franchise has been short-circuited by callous politicians whose doctorine is "they have nowhere else to go." A lot of conservatives won't go to the polls, saying, "Why should we vote for something we don't believe in?" I can't answer that. But if they can't conscientiously vote Republican, they should go to the polls and write-in a protest vote *for* Senator Byrd, Senator Knowland, T. Coleman Andrews or someone they do believe in. Whatever our party, whatever our principles, let's vote: For, against, write-in or protest. Not to vote is to default—default freedom, citizenship and duty.

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